

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

MARCH 1, 1953



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***Golden Pyramid	—	X	***Tallyho	— X
**Grande Duchesse	—	—	*Will Rogers	— X
Charlotte	X	X		
*****Helen Traubel	—	X	PATENTED CLIMBERS	
Horace McFarland	—	X	***Climbing	
**K. T. Marshall	X	—	Forty-Niner	X X
Lowell Thomas	X	X	**Climbing Peace	X X
***Mirandy	X	X		
****Mission Bells	—	X	PATENTED FLORIBUNDAS	
**McGredy's Sunset	X	X	*Holiday	X —
*Mme. Chiang Kai-shek	X	X	****Ma Perkins	X —
*Mme. Henry Guillot	—	X	*Pink Bountiful	X X
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	20	100	250	and up
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**Varieties	1.00	.87½	.80	.75
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****Varieties	1.10	1.00	.95	.85
*****Varieties	1.25	1.12½	1.05	.95
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AMERICAN NURSERYMAN

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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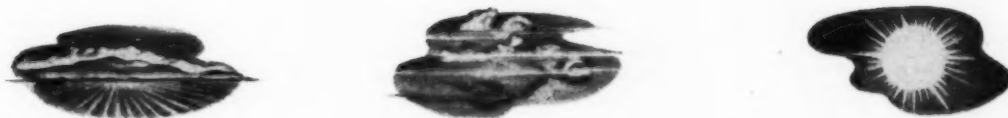
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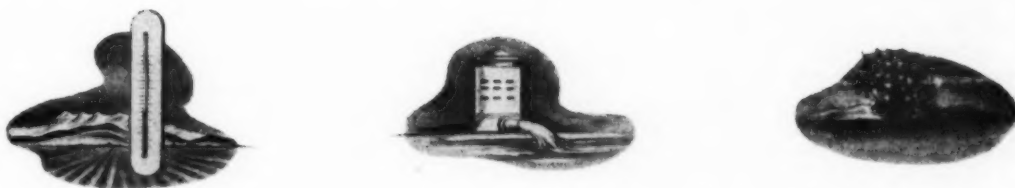
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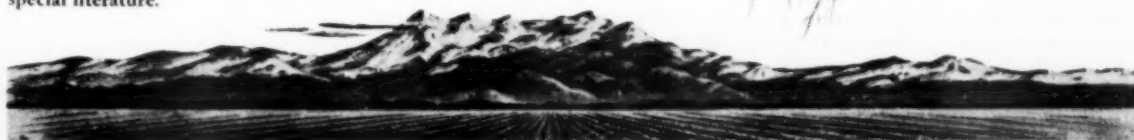


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AMERICAN NURSERYMAN

F. R. KILNER
Editor and Publisher

KENNETH A. BRENT
Managing Editor

Editorial

PLANTS FOR RANCH HOUSES

Whether one's architectural taste leans to the ranch or modern type of house, the fact must be faced that a large proportion of present-day homes are constructed in that style, and the nurseryman, whether he be landscape designer or grower, must be governed accordingly.

There is not much ornament in these styles of architecture. Often the lines themselves have little to recommend them artistically—but the same may be said of the 2-story homes constructed by speculative builders of an earlier era. Some of the cheaper homes of the ranch style have as much grace in their lines as a packing box, and less than a log cabin.

Herein lies the nurseryman's opportunity. It has already been suggested by leading landscape architects that the present-day homes require different treatment than did the 2-story buildings of another era. Instead of tall, straight shade trees, erect coniferous evergreens and tall massive shrubs, the ranch-style home demands smaller trees of irregular outline, spreading evergreens and dainty shrubs. These provide the curves and ornamentation which were supplied by architectural features and adornments in the houses built a generation ago.

Some landscape nurserymen are doing some excellent work in planting ranch or modern-style homes according to these briefly stated principles. Sometimes they buy from the grower his irregular, misshapen trees to produce the desired effect, and obtain the stock at a reduced price, while the grower retains his stiff, straight trees at full prices according to the ideas of earlier days.

Those who do landscape planting are not the only ones who should recognize the change. The nurserymen who grow the stock should likewise understand that, of the nearly 1,000,000 dwellings expected to be built annually in the next decade, most will be the single-story type, with severely straight outlines, which can be made beautiful if the right

The Mirror of the Trade

trees, shrubs and vines are employed in the planting about them.

If the new homes are made beautiful by plants, the nurserymen will be sought for more stock. But if stark lines are emphasized by straight, vertical plantings, the effect will attract less buying of trees and shrubs. The way has been shown by some of the leading landscape designers. It deserves more attention by the producers, as well as the retailers, of nursery stock.

AIDING BUSINESS

Expressing in his first message to Congress his intention to make life easier for businessmen, and especially those of the small variety, President Eisenhower required less than three weeks to take action desired by practically all of them, the removal of all wage controls and of most of the items from under price control. The regulations in regard to prices did not affect nurserymen, except indirectly in the matter of some supplies, but wage controls hampered management in this industry as elsewhere.

Balancing the budget and lowering taxes will take a longer time, but the promptness of action by the administration in regard to wage and price controls augurs well for the future.

DEBTS HIGH TOO

Mixed reactions appeared in the comments on the recent report of the Department of Commerce on the increase in both government and private debts in the past dozen years. Whereas obligations of federal, state and local governments and debts of individuals and corporations stood at \$180,000,000,000 at the end of 1939, the total reached a figure estimated at between \$535,000,000,000 and \$550,000,000,000 at the end of 1952.

Of course, almost two thirds of the increase was in the federal government's indebtedness, which had risen from \$40,400,000,000 to the huge sum of \$259,151,000,000. State and local government obligations rose from \$20,000,000,000 to a 1952 total of \$29,600,000,000.

Mortgage loans on nonfarm homes rose from \$17,948,000,000 at the end of 1939 to an estimated figure of \$59,500,000,000 in 1952. Consumer credit obligations, mostly installment

credit, increased from \$7,031,000,000 to an estimated \$23,700,000,000. Other forms of private indebtedness are farm loans and the obligations of incorporated and unincorporated businesses.

Some part of the increase doubtless has been caused by the inflation of prices, or the shrinking of the dollar, as you prefer.

Bankers and credit executives say they are not worried at the increase in debts, because it is to be expected to accompany record employment, high wages, record business activity and expanding production. So long as our economy continues at its present high level, the indebtedness, being relative to other factors, may not be too large.

But there has been an increase in interest rates, small and gradual; loans and credits are given more careful scrutiny. Farm prices have declined 10 per cent in the past year, and some recessions have appeared in the quotations of other merchandise.

While all hope for a continuation of business on its current high level—and nurserymen have good reason to expect it in view of unabated home building activity—the phase of the business cycle would call for some consideration of the other side of the picture. The operator whose turnover is within annual scope or whose enterprise is a service business is unlikely to have much indebtedness; if he has, study of its reduction is in order. The producer of stock, particularly on a large scale, which requires several years to bring to salable sizes should consolidate his position. He may find it profitable to borrow for expansion, but in these thriving times for nurserymen, he should be thinking in short terms instead of long terms. The desirability of a strong cash position is not to be overlooked—an asset whatever the future holds in store.

GRAND RAPIDS ELECTS

President of the Grand Rapids Association of Landscape Designers and Nurserymen for the new term is William Barnaby, Barnaby's Landscape Nursery, Grand Rapids, who was the group's president during the past year as well. Wilbur Luikens, Holland-American Seed Co., Grand Rapids, was re-elected secretary-treasurer, and Bruce Fox was elected vice-president.



New officers and distinguished guests of the New England Nurserymen's Association examine some literature during the association's Boston convention. Left to right are John A. Brownell, Newport, R. I., vice-president; Chester E. Hogan, Manchester, Conn., presi-

dent; Erwin W. Whitham, Manchester, Conn., secretary; Alfred Angel, Newport, R. I., treasurer; Peter Cascio, West Hartford, Conn., president of the American Association of Nurserymen, and Curtis Porterfield, Washington, D. C., A. A. N. administrative assistant.

Merchandising Aired at New England

Chester E. Hogan, of C. R. Burr & Co., Manchester, Conn., was elected president of the New England Nurserymen's Association at the 42nd annual convention of the association, held at Boston, Mass., February 3 to 5. Mr. Hogan advanced from the vice-presidency.

Other officers elected at the meeting were vice-president, Jack Brownell, Rhode Island Nurseries, Newport, R. I.; secretary, Erwin Whitham, Manchester, Conn., and treasurer, Alfred Angel, Newport, R. I.

Elected to the executive committee were Willard M. Bond, Bay State Nurseries, Inc., North Abington, Mass.; Charles A. Godin, Adams Nursery, Westfield, Mass., and Dick Van Heiningen, Van Heiningen Nurseries, Deep River, Conn. Delegates elected to the American Association of Nurserymen included Bob Stuart, Harry Eastman and Bob Hutt. Alternate delegates elected were Bob Kempenaar, Ray Griffin and R. H. Gardner, Jr.

Peter Cascio Speaks

The meeting opened at 1:30 p. m. February 3, following a luncheon served to the delegates. The first speaker was Peter Cascio, West Hart-

ford, Conn., president of the A. A. N. Mr. Cascio began his talk by reviewing the details of the planting programs being carried out in various parts of the country, particularly those in the state of Ohio. Mr. Cascio pointed out that it was New England that first originated the idea of "Plant America," but that at the moment the areas to the west were "stealing the show"; he called upon the New England nurserymen to do more work to keep pace with the Ohioans and others who are making progress in the planting program.

Mr. Cascio then reviewed the program of the A. A. N. to combat fraudulent and misleading advertising, and expressed the belief that this type of advertising has reached its peak and from now on will show a decline. "The American Association of Nurserymen and others are collaborating to smash this [misleading advertising] every time that it appears," he said. "We will battle for accurate horticultural descriptions to maintain the confidence and good will of our customers."

Touching upon the forthcoming A. A. N. convention at New York, Mr. Cascio expressed the hope that the "New England Night" at the

meeting will reflect some of the true flavor of the area, so that it will be readily distinguished from the other nights being sponsored by nurserymen of other eastern areas.

Mr. Cascio was followed by Curtis Porterfield, administrative assistant of the A. A. N., who made the first of two appearances on the program.

Speaking of the situation at Washington, Mr. Porterfield said that the attitude now prevalent at the capital is that a feeling of dignity is being restored to the government, especially to the executive branch. "You can actually sense it by just going back to Washington after being away for a day or two," declared Mr. Porterfield.

Speaking of businessmen and their relations with the trade associations, Mr. Porterfield observed that nurserymen who want to make a real contribution to the industry as a whole cannot do so easily without the help of local, state, regional and national trade associations.

"You can do well by yourselves," he continued, "but the day of the rugged individualist, who could go out and grab a woman by the hair and drag her to his cave and then go out with a spear and kill what food

he needs, is gone. It is becoming more and more imperative that all nurserymen join in the association with their fellow men in the industry so that the industry itself can obtain a larger share of the consumer's dollar.

"You know, you are not in competition with each other," the speaker went on. "Nurserymen obtain less than one-tenth of 1 per cent of the consumer's dollar. In the past eight years, which could be called the age of television, more than 20,000,000 television sets have been sold in the United States. I want to tell you that this represents a considerable number of consumer dollars, and they are not going into nursery stock. This is where your competition is really situated!"

Willard M. Bond, president of the association, next presented his report to the membership. He noted that the association has finally exceeded the 100 mark in membership, having as of the time of his address a total of 117 members. The president congratulated the membership committee and others who contributed to the additions in membership.

Mr. Bond then reviewed the famous Winslow-Needham zoning case. He noted that, after the nurserymen had won an initial victory in the superior court of Massachusetts, the decision was appealed to the state Supreme court. The decision from the latter body is expected to be received early in the month of March.

Mr. Bond then took the zoning case as the basis for some remarks on the subject of community cooperation on the part of nurserymen. Among the items discussed at the Winslow zoning trial were parking facilities, signs, lighting and objectionable loud speakers, and Mr. Bond stated that the nurseryman owes it to his community to take the right course with respect to these and similar situations.

Looking into the crystal ball with respect to the coming year, Mr. Bond took the view that the new administration would succeed in its efforts to continue prosperity while at the same time reducing taxes, with the result that businessmen might look forward to the year with a reasonable expectation of continued satisfaction and profits.

In the realm of public relations, he suggested that the New England Nurserymen's Association sponsor some endeavor designed to show the public that nurserymen have other interests in mind besides their own "selfish problems."

Horticultural Merchandising

The speaking program continued on the morning of Wednesday, February 4, which was educational day. The first speaker was Harry Raben, general manager of the Garden World, Flushing, L. I., N. Y. Mr. Raben gave the New Englanders a rousing talk on horticultural merchandising.

The speaker opened by reviewing



Willard M. Bond, left, retiring president of the New England Nurserymen's Association, congratulates his successor, Chester E. Hogan.

the population trend from the cities to the suburban and semirural areas, and linked with this movement a need for more and more retail horticultural stores. He stated that the suburban garden center is developing at the expense of the mail-order nursery because it is now possible for consumers to purchase their horticultural needs over the counter rather than selecting them from a catalog and ordering them by mail.

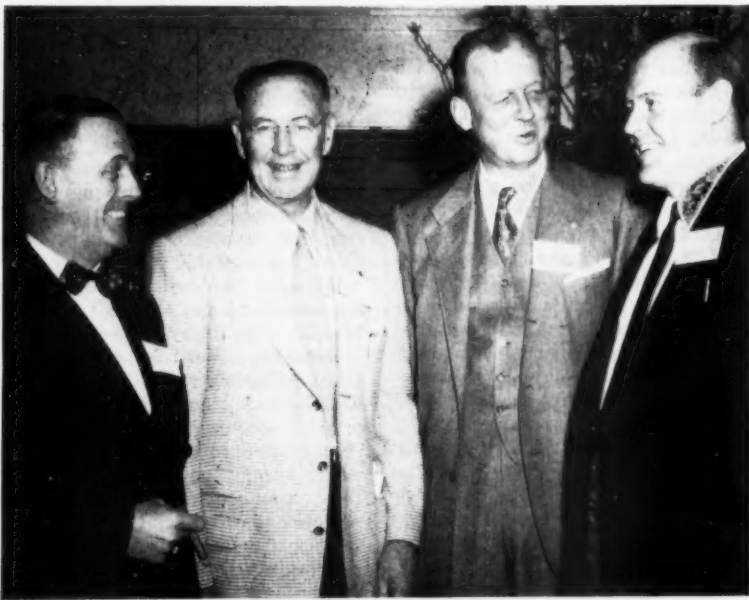
The increase in demand for horticultural products has led many persons to plunge into the retail nursery business unprepared, Mr. Raben said. The first essential in operating such a store, he declared, is to plan it thoroughly. Such things as an accessible site, adequate parking facilities and proper physical layout of the property are important.

He discussed the matter of self-service, stating that the present tendency is to sell as much merchandise as possible on a self-service basis. The advantage of self-service, he pointed out, is that it enables the merchant to serve a larger volume of customers in a given time, and with a smaller investment in sales personnel. The disadvantage is that it leaves the customer on his own and does not give the merchant as much opportunity to sell related items as he would have with personal selling. As a compromise, the speaker suggested what he termed a semiself-service system, which would allow for self-service during peak days and seasons and direct selling at other times.

Merchandising Plan

Mr. Raben then proceeded to discuss the merchandising plan which his firm has developed. "We plan our sales by the season," he stated

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They were there. Prominent participants in the meeting of the New England Nurserymen's Association included Louis Vanderbrook, Arthur Webster, Seth Kelsey and Richard Wyman, Jr., left to right.

Virginians Push Planting Program

Nurserymen from all parts of the Old Dominion gathered at the Hotel John Marshall, Richmond, February 8 to 10, for the 22nd annual convention of the Virginia Nurserymen's Association. The exceptional weather which has prevailed over most of the nation this winter persisted throughout the time of the meeting and the attendance was excellent.

W. L. Winn, Winn Nursery, Norfolk, was elected president of the association for the coming year. Other officials elected include vice-president, Charles H. Kennedy, Northern Virginia Nursery, Nokesville, and secretary-treasurer, Kenneth McDonald, Le-Mac Nurseries, Hampton. Elected to the executive committee were M. S. McKinney, Hedge Lawn Nursery, Roanoke; George Stockner, Laird's Nurseries, Richmond, and Guy Arnold, Haynesville Nurseries, Bristol, Tenn. J. R. Richardson, Blue Ridge Gardens, Roanoke, the retiring president, became an ex-officio member of the executive committee.

Where Do We Go from Here?

The meeting was called to order Monday morning, February 9, and following the invocation and introduction of guests and exhibitors, Mr. Richardson delivered the president's address. Taking the theme of the convention, "Where Do We Go from Here?", as the basis of his message, Mr. Richardson posed the further question, "What is the aim of nurserymen and the nurserymen's association?"

Answering his own question, Mr. Richardson granted that the accumulation of material rewards is a definite part of the business, as it is with any business, but he felt that service to customers and to the community is of far greater importance. Actually, he said, the achievement of the first goal is far more likely if attention is paid to the second. Really to succeed, he said, nurserymen must consider themselves as servants of the community.

Mr. Richardson next turned his attention to the "Plant Virginia" program, which has captured the interest of a large proportion of Virginia nurserymen. He reviewed the activities which led to the establishment of a separate group, known as the Plant Virginia Association, which was formed to carry out the objectives of the planting program. He stated that the new association

would require some \$3,000 per year to carry on even the most rudimentary promotional program. The realization of this financial goal would mean a contribution of approximately \$30 per year from each nurseryman participating in the program—assuming that at least 100 nurserymen are persuaded to join the association. Charter memberships in the Plant Virginia Association were still available as of the time of the Virginia Nurserymen's Association meeting. In closing, Mr. Richardson called upon nurserymen to work for the "Plant Virginia" program in their individual communities through such activities as the distribution of promotional literature.

Nematode Problem

C. R. Willey, associate entomologist for the state of Virginia, next appeared on the program and discussed "The Nematode Problem." Mr. Willey opened his discussion by recognizing the fact that nematodes were not a new problem to the nursery industry, but have been around for some time. There are many kinds of nematodes, he said, but those that are particularly obnoxious to nurserymen are microscopic in size and therefore hard to study. For this reason, he said, relatively little is known about them.

Pursuing this line of reasoning, Mr. Willey concluded that the best way to conquer the nematode prob-

lem is through prevention rather than cure. He called upon Virginia nurserymen who purchase stock to obtain that which is, insofar as possible, nematode-free. He remarked that some species of nematodes were introduced into the state of Virginia when rooted cuttings from other states were planted in Virginia.

As a further precaution, Mr. Willey recommended that nurserymen use steam sterilization on all pots, potting soil, propagation benches, etc., and also fumigate fields where stock is to be grown. The speaker acknowledged that these procedures were expensive, but maintained that the results to be achieved would justify the expense. Mr. Willey expressed the hope that some of the newer insecticides will prove to be effective against nematodes. He pointed out that the need is for a substance that will be toxic to the nematodes and not to the plants. He said that Parathion may do the job.

John Siebenthaler Speaks

Activities of the American Association of Nurserymen were brought to the attention of the Virginia audience by John D. Siebenthaler, the Siebenthaler Co., Dayton, O., vice-president of the A. A. N. Among the programs reviewed by Mr. Siebenthaler were those concerning advertising, group insurance, quarantines, postal rates, market development

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J. R. Richardson, Roanoke, Va., left, retiring president of the Virginia Nurserymen's Association, hands the gavel to the new president, W. L. Winn, Norfolk. Looking on are Charles H. Kennedy, Nokesville, new vice-president, and Kenneth McDonald, Hampton, re-elected secretary-treasurer.

New Jersey Meets at Seashore

By Raymond P. Korbobo

Members of the New Jersey Association of Nurserymen were only recognizing that their own state has one of the finest winter resorts in the nation when they held the association's annual winter meeting at Atlantic City in the Hotel Chalfonte-Haddon Hall, January 29 and 30. The weather, which could have been called balmy, was a good deal better than one can usually expect at this time of the year and permitted leisurely strolls along the city's renowned boardwalk.

This same weather, which was so much appreciated at the convention site, also made nursery operations possible and this undoubtedly kept some of the nurserymen close to their businesses; nevertheless, the attendance was satisfactory and fully representative of the nursery industry in the state as well as of many of the allied trades. Thirty-eight firms answered the early morning roll call on the first day and 37 firms answered an even earlier roll call on the second day. The attendance averaged around 100 at both meetings.

The 2-day meeting included two luncheon speakers, two panel discussions, four speakers, representatives of all the committees, a banquet, a cocktail hour, entertainment and dancing. Nominations and elections of new officers also took place.

Officers for the next term are president, Samuel E. Blair, Blair's Nurseries, Inc., Nutley; first vice-president, Russell Bettes, Piedmont Landscape Co., Princeton; second vice-president, Albert Flemer, F. & F. Nurseries, Springfield; treasurer, August C. Kindsgrab, St. Cloud Nurseries, West Orange; assistant treasurer, Charles Ur, Maple Grove Nursery, Montville, and secretary, Raymond P. Korbobo, Rutgers University, New Brunswick.

Opportunities

The Atlantic county agricultural agent, John Brockett, was the luncheon speaker on the first day. Mr. Brockett spoke on "Opportunities." One of his observations concerning opportunities for the nursery trade in the "Garden State" was concerned with the need of many of our older homes for landscape work. Mr. Brockett pointed out that old homes, in the general sense of the word, far outnumbered new homes. He used his own as an example and mentioned that no nurseryman has ever approached him for landscape work on his property. He added, humor-

ously, that he is so busy being a county agent that he would not find time to maintain the landscape work anyway, so perhaps it might not be a good idea to use him for the first call.

It is a fact though, he said, expanding on his last remark, that the "after service" of a landscape job is just as important as the original planting. Here in the east, Mr. Brockett continued, labor is at such a premium that it is most difficult to employ a gardener with experience and proper qualifications to care for a well-landscaped property. Such a type of business is one of the golden opportunities in the field of ornamental horticulture, he said.

Mr. Brockett pointed out that there are thousands of churches, factories, schools, community buildings, range halls, etc., throughout the state which are woefully in need of at least some landscape work.

Mr. Brockett then dwelt for some

time on the highway situation in New Jersey, summing up his appraisal by saying of the highways, "They are good to drive on but poor to look at." This too, he said, offers great opportunities in that there is a need to improve their appearance through the proper use of landscape material.

He urged that the nurserymen in their own communities lead, and work in cooperation with, civic bodies so that early community planting of street trees, parks and playgrounds can be the rule instead of the exception.

Mr. Brockett pointed out that the New Jersey shore area presents a special problem for the landscape man because only certain plants can be grown there without expensive protective devices. He said that research conducted with various plants under these growing conditions would be helpful in finding hardy varieties, but that it might even be necessary to breed new varieties to obtain suitable kinds of material.

He closed his remarks by saying that the nurseryman cannot be satis-

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Varied Washington Program

By Carol Wieting

About 90 nurserymen and horticulturists from the northwestern states gathered at the Davenport hotel, Spokane, Wash., January 26 to 28, for the winter meeting of the Washington State Nurserymen's Association. In addition, a substantial part of the second day of the meeting was devoted to a session of chapter 28 of the American Association of Nurserymen.

President R. D. Leamer, Priest Point Nursery, Marysville, presided over the opening sessions and introduced Harold Abbott, the superintendent of parks at Spokane, who delivered the welcoming address. Mr. Abbott expressed his thanks to the nurserymen for the impetus they have given to the cultivation of better gardens all over the state. He added that there still exist opportunities for even closer cooperation between the park departments of the cities and towns and the nurserymen of the state. He said that he hoped these opportunities would be exploited by both groups.

After this, President Leamer introduced Howard Andrews, Mountain Meadow Nursery, Monroe. Mr. Andrews listed several reasons why nurserymen of the area should belong to the Washington State Nurs-

erymen's Association. Chief among these, he said, were the chances of meeting other nurserymen.

Following Mr. Andrews' talk a panel discussion was presented on recent changes in plant materials and the uses of some of the newer varieties. On the panel were L. H. McGuire, Puget Sound Nursery & Garden Shop, Tacoma; Vic Mix, Campus Nursery, Seattle, and Bryan Taylor, Taylor Nursery, Seattle. Mr. Taylor said that plants should be grouped more in the garden and that nurseries would find it advantageous to prepare seasonal displays of well-chosen plant materials in their nurseries. Mr. Taylor gave his opinion that there should be easily read labeling and pricing markers on nursery stock to speed up sales.

Modern Spray Materials

Following an intermission, Wayne McKinley spoke to the group on "Modern Spray Materials and How to Use Them." After a short discussion of these materials, with words of caution on their use, Mr. McKinley spent some time describing a way of improving credit relations with customers. The method he adduced would leave most of the credit prob-

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Oregon Meeting Offers New Ideas

By James A. Doty

With mild winter weather allowing travel from all parts of the state, the Oregon Association of Nurserymen realized an excellent attendance at its midwinter meeting and the program for this annual event offered new ideas and new incentives to the nurserymen in attendance.

The 2-day meeting, held on January 28 and 29 at the Multnomah hotel, Portland, opened with the regular business session which included committee reports from all standing committees as well as a complete report and a panel discussion on the Oregon association's market development and publicity program. The feature attraction of the first day's session was a talk by Walter L. Doty, of Menlo Park, Calif., editor of *Sunset Magazine*. His theme was the trends of western living and their effect on nurserymen. Mr. Doty began his talk by explaining that the western trend began with movements of the population westward as early as 1849. The population settled and fads came and went with the times, but a few durable styles were created which in turn created trends of western living. Practical styles have always been developed by new civilizations, and the westerners likewise favored practicality and simplicity in their homes, furnishings and gardens.

The past 15 or 20 years, Mr. Doty continued, have seen a marked speed-up in the development of practical gardening and outdoor living. The shorter work week has given people more time to be garden conscious. They have had time to enjoy their surroundings and the development of the outdoor living room is one practical result.

Continuing on this theme, Mr. Doty emphasized that people still have not looked far enough into the future and have curtailed their garden enjoyment by limiting their planting. The western homeowner could develop the outdoor living room much further, he suggested, by



At the Oregon meeting, A. Lynn Brooks, center, president of the Oregon Association of Nurserymen, reviews some material with Bryan Taylor, left, and Walter L. Doty, right, speakers on the program.

using plant materials of various climatic types, including some suitable to more than one area.

Walter Doty, as editor of *Sunset Magazine*, is concerned about the nurseryman and his problems. He explained at some length *Sunset Magazine's* plan to encourage the use of better and finer plant materials, some new and some well-known in nurseries at present. The magazine's plan includes a system of indexing locations of stock in order to advise retailers where certain plant materials can be obtained in advance of feature articles about them. The publication expects to continue this extensive project and to develop an advisory board of nurserymen and other plantmen to act as authorities on plant materials in specific areas. This board could recommend, test and further encourage the sale and development of plant materials about the home. As Mr. Doty stated, "*Sunset Magazine's* plan is to develop better, greater and more varied use of plant materials," and, of course, this would be of great benefit to nurserymen.

In concluding his talk, Walter Doty urged the nurserymen to put more of their products to use, to continue to advertise to the public and to try to put themselves on an equal footing with competitors such as the lumbermen, washing machine dealers, etc. As a suggestion to retail nurseries, he urged a "Visit Your Nursery" month where the public could see plant material as it can be used, and as it appears at its best. Mr. Doty predicted the growth of the self-service type of nursery operation in most of the country's nurs-

ery yards and he foresaw a continued demand for plants.

New Plant Materials

The meeting room was crowded on the second morning of the Oregon association's meeting, as President Lynn Brooks brought the session to order and introduced Bryan Taylor, of the Taylor Nurseries, at Seattle, Wash., who spoke on "New, Practical and Interesting Plant Materials." Of most practical importance to those present was the forceful reminder that we are not up-to-date in our marketing methods. As an example, Mr. Taylor cited many of the now complete gardens about homes which nurserymen allow to remain unchanged except for the addition of a few different annuals each year. He urged nurserymen to develop new and varied methods of using plant materials in the garden and outdoor living area. The nurserymen should instill in the minds of their customers the idea of enjoying the beauty of the garden and, to maintain customer's interest, should keep up-to-date in the shrub world.

Mr. Taylor felt that retail yards in the northwest should be dressed up with more complete labeling to give the visiting customer more information. In line with this, the retail salesman should show enthusiasm for individual varieties that he wishes to push. "Enthusiasm and a smile," he said, "are worth a good many dollars in salesyard intake." Summing up his ideas on marketing methods, he stressed the point that there has never been any sales or price resistance to quality stock.

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Hold Long Island School

By Clarence E. Lewis



Speakers at the annual school for nurserymen and estate superintendents held at Farmingdale, N. Y. Left to right, Paul Cocklin, Dr. A. M. S. Pridham, Dr. John Cornman and Dr. John Naegele, all of Cornell University.

The annual 1-day combined nurserymen's and estate superintendents' school, sponsored by the agricultural agent of Nassau county, New York, was held January 28 at the Long Island Agricultural and Technical Institute, Farmingdale, N. Y. The meeting was held in conjunction with the extension service of the New York State College of Agriculture, part of Cornell University, Ithaca.

James McFaul, the assistant county agricultural agent, did an excellent job of bringing an informative program to the 100 persons attending. The entire program ran smoothly, thanks to Mr. McFaul's planning, but he did forget to speak to the weatherman since it rained hard enough in the morning to wash away the eagerness of those who would have traveled from a distance.

Common Tree and Shrub Diseases

Paul Cocklin, of Cornell University, was first introduced by Mr. McFaul. A pictorial presentation of common diseases of trees and shrubs provided interest and provoked many questions from the audience. Mr. Cocklin, of the department of plant pathology, emphasized the fact that plants are much more susceptible to disease when, through nursery operations, they have undergone such disturbances as drying and bruising.

Pictures were shown and controls were recommended for a number of diseases. Anthracnose can be con-

trolled by spraying with Bordeaux (8-8-100), with two applications—one, as soon as the buds open, and the second, 10 to 14 days later. All leaves should be removed in the fall and either composted or burned. Mr. Cocklin also mentioned that there is an advantage in spraying before, rather than after, a rain.

Rhododendron leaf spot can also be controlled with Bordeaux (8-8-100), if applied when the new leaves are nearly full size in the spring. Copper sprays are also effective, but spraying should be coupled with the picking of diseased leaves from the ground and plant, and then destroying them. Overhead watering is not suggested when leaf spot is a problem.

Cedar-apple rust can be discouraged by spraying red cedars with Elgetol (1:100) as soon as the spore masses appear and before new growth has started. Two applications are preferred to a single dose. Of course, if the red cedars are moved at least one mile from the apple trees, then the rust is no longer a problem. This is difficult and usually impossible so that, in lieu of transplanting, the apple trees should be sprayed with 76 per cent Ferbam, one half pound, and elemental sulphur, three pounds, (or wettable 5 paste six pounds) per 100 gallons.

Canker of dogwood is treated by removing discolored wood, down to the heartwood if necessary, and also healthy wood for one and one half

inches around the edge of the canker. Paint all exposed cambium and wood with orange shellac immediately and thoroughly. Pruning and fertilizing are helpful to the tree's recovery.

For rhododendron root rot and wilt there is no definite control, but rhododendron dieback difficulty is reduced by spraying with Bordeaux (4-4-100) after flowering, and using two applications at least 10 to 14 days apart. The affected twigs should be pruned and shade should be reduced. Planting near lilacs is not recommended.

Dr. Naegele Features Quiz on Insects

When Mr. McFaul introduced Dr. John Naegele, of Cornell University, and announced his topic, "Back to School," nurserymen were surprised to find that they were to take part in a quiz. It was so well-presented that the nurserymen afterward spoke of how much they had learned and how little they had known about insects and their effects. "Back to School" proved to be a peppy part of the day's program.

Excellent Kodachrome slides showed various stages of insect growth and the injuries they inflict. The slides were shown with no comment except a brief description of the picture and sometimes a word about the type of plant infested. After one showing of the pictures, they were reshown in the same order and the insects and injuries were named by Dr. Naegele. The series included bagworm, maple leaf bladder gall, spider mite on blue spruce, birch leaf miner, rosy apple aphid injury, hawthorn foliage injury caused by lace bugs and lace bugs on rhododendron. The best control for this last infestation is one pound of 25 per cent Lindane wettable per 100 gallons when the small nymphs can be seen, which is usually about May 20 on the rhododendrons and June 1 on the hawthorns. A second spray should be applied 10 days later.

Other interesting slides showed the galls caused by the eastern spruce aphid and those caused by the Sitka spruce aphid. The galls resulting from the former were wormed at the bases of the new stems, while the latter showed the galls at the tips of the branches. Both can be controlled by spraying in warm weather, before the buds open, with two and one-half gallons of lime-sulphur, one pint of nicotine sulphate and three pounds of soap per 100 gallons. Late September or early October sprays of the same materials are also effective in controlling second generations.

Dr. William Feder, of the Orna-

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Lewis Barr Heads Pennsylvania Group

By R. P. Meahl

Lewis E. Barr, B. F. Barr & Son Nurseries, Lancaster, was elected president of the Pennsylvania Nurserymen's Association at the meeting of the association held at York, Pa., February 4 and 5. Other officers elected included first vice-president, Albert F. W. Vick, Jr., Vick's Wildgardens, Narberth; second vice-president, Jesse R. S. Flory, LaBar's Rhododendron Nursery, Stroudsburg, and secretary-treasurer, Wilbur I. Nisley, Walter, Nisley & Walter, Harrisburg.

New members of the executive committee are Lloyd W. Nolt, Nolt's Ponds, Silver Springs, and Robert L. Hood, Andorra Nurseries, Conshohocken, for two years, and Ira H. Frontz, Quality Nurseries, Allenwood, for one year.

Forum on State College

The meetings opened Wednesday morning, February 4, with a forum on "Making Better Use of Our State College Facilities," with R. P. Meahl, professor of ornamental horticulture, as moderator, and Dr. Russell E. Larson, head, department of horticulture; A. O. Rasmussen, ornamental horticulture extension; J. O. Pepper, entomology extension, and H. R. Albrecht, head, department of agronomy, as panel members, all of the Pennsylvania State College staff.

Dr. Larson explained the program of the horticulture department in its teaching and research phases. This program is not so extensive as it should be, but must compete with other agricultural interests for support. He stated that the three large agricultural interests, based on growers' returns, were agronomic crops, dairy and poultry. Individually, the various horticultural interests, such as vegetables, floriculture, fruit or nursery do not compare favorably in total cash returns with any of the above and, consequently, do not receive as much support.

If, however, the crops of the horticultural interests are combined, they do compare favorably. Dr. Larson urged that all horticultural groups coordinate their efforts by forming a horticultural council made up of three members from each group. This combined council would meet annually or semiannually to decide where in horticulture the emphasis should be and then all the groups would work together. At an-

other time some other phase would be stressed.

Professor Rasmussen told of the work conducted by the extension service. He emphasized the importance of the home grounds improvement demonstrations and the establishment of horticultural workshops in various communities. Membership lists of the Pennsylvania Nurserymen's Association and Western Pennsylvania Nurserymen's Association are furnished to the persons attending these workshops and they are urged to purchase their material from Pennsylvania nurserymen. The extension service is also aiding in the soil testing program.

Although extension work has been

conducted in Pennsylvania for 40 years, there are still many persons not familiar with the proper procedure to secure help, according to J. O. Pepper. He said that time could be saved by contacting the county agent first. Television has been used to spread information regarding newer materials for insect control.

Dr. Albrecht said there had been over 8,000 soil tests in all fields and urged greater use of these tests by nurserymen to help in solving their soil problems. He explained the work of the agronomy department in soil and fertilization research which is, and will continue to be, of value to

[Continued on page 64]

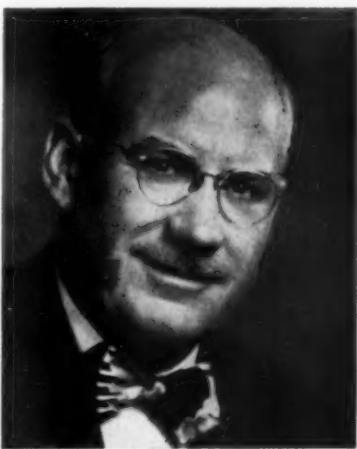
Speakers on Pennsylvania Program



R. P. Meahl



Dr. Donald Wyman



John D. Siebenthaler



Raymond P. Korbobo



Cuttings of *Acer palmatum atropurpureum novum* taken July 10, 1952, and photographed August 28. The wood at this time was too firm and percentages were poor. Mid-June would seem to be the best time.

Pointers on Propagation

• Importance of Juvenility

By James S. Wells

At the 1951 meeting of the Plant Propagators' Society those in attendance had the benefit of an excellent talk by Prof. F. L. O'Rourke on the question of juvenility. It was reprinted in full in the proceedings of that year. This question of juvenility is one which is not often considered in any detail by the average propagator and yet it can be of great value in the propagation of certain plants, particularly some which have earned the reputation of being "difficult." In the discussion which followed Professor O'Rourke's lecture this point was emphasized by many growers, who reported the practical value of taking cuttings of a juvenile type from certain plants to obtain good stands of cuttings.

We ran into a somewhat surprising example of this in our propagation of magnolias this past summer. For the past four years we have taken cuttings from all available stock plants in our vicinity. These included a planting of eight large trees of *M. soulangeana* which are well over 20 feet high. We had noticed that cuttings taken from these large trees never rooted well, the successes sometimes being not more than 40 per cent and invariably low. Nevertheless our annual production steadily increased and in the summer of 1951 we rooted a fine batch of over 20,000 magnolias of all types. These were planted out early

in the spring of 1952 and by the middle of June we had nine long beds of strongly growing liners. They were on new land so that growth was vigorous.

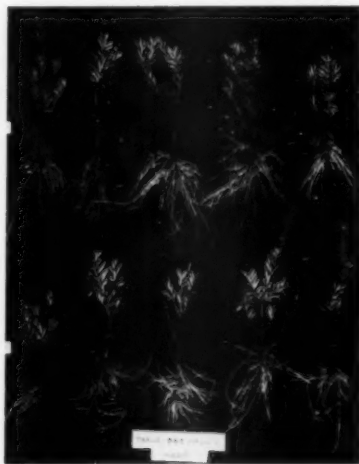
Early in July we commenced to take our normal batches of magnolias, starting as always with cuttings taken from the old-established trees. The quantity available was small, and so within a day or so we decided to switch to the young, strongly

growing liner beds, taking soft terminal shoots. These cuttings were exceedingly soft but the difference in the percentage of rooting and the speed of rooting between these and the cuttings taken from the old plants was most marked. Despite all the aids to rooting—hormones, constant mist, bottom heat and so on—at least 80 per cent of the old cuttings died while the young and extremely soft ones rooted rapidly and much more vigorously.

The rapidity of rooting was of immediate consequence because we were able to lift this batch 99 per cent strongly rooted in five weeks and pot them. The quick establishment of rooted magnolia cuttings in the pots and the initial movement of the cuttings towards top growth we consider important factors in bringing the young plants through the winter. Speed of rooting enables cuttings to be potted at an earlier date, which thus allows more growing time for the cuttings to prepare for the winter. An intangible result—yet a real one, as any propagator will know—is the general "zip" and vigor with which juvenile cuttings root. It was a pleasure to see this batch of vigorous cuttings thrusting up to new growth with an equally vigorous root system beneath.

A large number of plants in the conifers which we grow as clones are

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Hard cuttings of *Taxus cuspidata nana* (brevifolia) showing the type of rooting which may be expected from cuttings taken from old and completely hard wood. Cuttings were taken December 17 and photographed at the end of March.

Two-way mounted pick-up plow turns all furrow slices in one direction, eliminates dead furrows and back furrows. Hand or hydraulic lift.

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Plant Notes Here and There

By C. W. Wood

A newcomer to the trade of about five years writes that he has trouble growing columbine plants to match the superb quality of some that he sees on private estates in his part of Massachusetts and wonders what is wrong with his method. He is not the only commercial grower that has run into that difficulty, as you can prove to yourself by looking at the columbine plants in your competitors' nurseries and maybe, though I hope not, in your own. I distinctly remember my own troubles along that line in my early plant-growing days, when I was really ashamed of the scrawny plants that I had to offer every spring. I remember, too, that I took my problem to a columbine specialist, whose advice was:

If one begins with good seeds of a good strain of hybrid columbines, the next requisite of success is to grow the plants without check from the emergence of the embryo until blooming time, because a columbine plant once stunted never can hope to put on the brilliant performance of which the well-grown product is capable. One should start the seeds into growth during cool weather, preferably in early spring, according to my experience. Transplant them before they become crowded in the seedbed, always using a light soil containing an abundance of humus. Move them to their final quarters before they are too large, and never let them suffer for lack of moisture.

Such a program, which sounds more arduous than it really is, should repay many times for the effort put forth. It should be borne in mind, however, that most modern strains contain too much Rocky mountain columbine blood to be long-lived. So one must expect a fairly high mortality among the plants and be prepared to replace them yearly. That calls for a steady supply of recruits to fill the ranks as the aged ones drop out, and it means that the nurseryman must have a constant supply of 1-year plants to meet the demand.

Silene Maritima

Anyone who lets familiarity keep him from enjoying *Silene maritima* is missing one of the better catchflies and an important garden plant. It will make itself at home almost anywhere in sun or part shade, adding the beauty of its soft, gray leaves and inflated, white flowers over much of

the summer. Given good living, it will become lean and lank, losing much of its charm; let its food and moisture be reduced (it can subsist on little of either when once established) and it remains a compact, lovely thing. It is a plant of a myriad uses, not only in the rock garden and wall, as one would naturally expect from the literature, but also for edge and forward positions in flower and shrub borders, where a plant of its low (two to four inches) stature could find a place. There is a double-flowered form, the ludicrous attempt of which at being a carnation appeals to many gardeners. There are also two or three so-called pink forms, that are more pink by courtesy than in fact so far as I am acquainted with them. Propagation of the type is easy from seeds; the double-flowered and the

pink kinds are best grown from cuttings of new growths in spring or from divisions.

Veronica Filiformis

This little Oriental version of veronica has most of the good points of the better kinds of creeping speedwells, and, in addition, it possesses some features which are lacking in the others. I can easily see, judging from its behavior here, that it could make a nuisance of itself in a moist garden, but it is not likely to bother anyone who has a dry soil to contend with. In fact, I find it difficult to keep it going here unless it is planted where the hose can reach it. Being shallow-rooting, it cannot withstand much drought, yet it does not require a large amount of moisture to make it cover wide areas with its tiny leaves on threadlike

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18 to 24 ins., 3 canes or more.....	2.00	15.00	125.00
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stems, which are hidden under a canopy of light sky-blue flowers for close to two months in spring. Its shallow roots and low stature (it is scarcely an inch tall as it grows here in northern Michigan) make an ideal ground cover, especially for small, hardy bulbs which react strongly to voracious feeders over and around them. It is, in fact, a good plant for almost any situation in sun or light shade where a rampant creeper is wanted. Propagation is easy from divisions, from cuttings at almost any season and from seeds.

Gerardia

Answering a Pennsylvania reader who asked for cultural directions for *Gerardia laevigata*: I regret that I can offer no positive encouragement for its culture. Although I have tried it repeatedly under varying circumstances, permanent success has not yet attended my efforts. I have heard of its cultivation by a New Jersey gardener, but never saw the growing schedule set forth and could not verify the story. On the negative side, two testimonies are offered below:

William Robinson, the great English authority, wrote as follows: "I have never, either in garden or in the wild land or in the Alpine mountains, where beauty of plant life is at its highest, seen anything that struck me more than a *gerardia* I once met with on a roadside in New Jersey growing abundantly here and there like a little tree in habit, 15 inches to 18 inches high, bearing most graceful miniature pentstemon-like flowers, but far more refined in color and distinct in form than any pentstemon. Naturally I asked why such a plant was not in cultivation, and learnt that the *gerardias* are mostly parasites on the roots of other plants. In spite of this, I brought home some seeds of one or two kinds and sowed them where I thought they would have some chance, but nothing ever came of it."

Herbert Durand, one of America's best students of native plants, gave this report: "There are several species of attractive wild flowers that are more or less parasitic; that is, they obtain at least part of their nourishment by fastening upon the roots of neighboring plants and stealing their juices. The smooth and downy false foxgloves, which frequent dry woods and display handsome yellow tubular blossoms in summer, the painted cup, whose flaming scarlet terminal bracts resemble glowing tongues of flame among the green meadow grasses and the lovely

[Continued on page 20.]

SHRUBS



A field of our *Hydrangea Peegee*, Meehan's strain.

	Per 100		Per 100
ALTHAEA, DOUBLE		HONEYSUCKLE	
<i>Anemonaeflora</i> , pink, 2 to 3 ft.	\$40.00	<i>Maacki</i> , 2 to 3 ft.	\$50.00
<i>Anemonaeflora</i> , pink, 12 to 18 ins.	20.00	<i>Maacki</i> , 18 to 24 ins.	40.00
<i>Amplissimus</i> , red, 2 to 3 ft.	40.00	<i>Morrowi</i> , 2 to 3 ft.	50.00
<i>Amplissimus</i> , red, 12 to 18 ins.	20.00	<i>Morrowi</i> , 18 to 24 ins.	40.00
<i>Lucy</i> , red, 2 to 3 ft.	40.00	<i>Tatarica Rosea</i> , 2 to 3 ft.	50.00
<i>Purple</i> , 2 to 3 ft.	40.00	18 to 24 ins.	40.00
<i>Purple</i> , 18 to 24 ins.	30.00	12 to 18 ins.	25.00
		<i>Tatarica Rubra</i> , 2 to 3 ft.	25.00
ARONIA		18 to 24 ins.	40.00
<i>Brilliantissima</i> , 18 to 24 ins.	40.00	12 to 18 ins.	25.00
<i>Brilliantissima</i> , 12 to 18 ins.	30.00	<i>Tatarica Zabell</i> , 2 to 3 ft.	50.00
		<i>Tatarica Zabell</i> , 18 to 24 ins.	40.00
BARBERRY		HYDRANGEA	
<i>Thunbergi</i> , 18 to 24 ins.	35.00	<i>Peegee</i> , 2 to 3 ft.	50.00
15 to 18 ins.	25.00	18 to 24 ins.	40.00
12 to 15 ins.	20.00	12 to 18 ins.	30.00
		<i>Nikko Blue</i> , No. 1.	80.00
BUTTERFLY BUSH		LILAC	
<i>Dubonnet</i> , reddish-purple, No. 1	35.00	<i>Belle de Nancy</i> , pink,	
<i>Dubonnet</i> , reddish-purple, No. 2	18.00	18 to 24 ins.	65.00
<i>Floralart</i> , lavender, No. 1.	35.00	<i>Belle de Nancy</i> , pink,	
<i>Floralart</i> , lavender, No. 2.	18.00	12 to 18 ins.	45.00
<i>Red</i> , No. 1	40.00	<i>President Grevy</i> , blue,	
Med.	30.00	18 to 24 ins.	65.00
No. 2	20.00	<i>President Grevy</i> , blue,	
<i>White</i> , No. 1	40.00	12 to 18 ins.	45.00
Med.	30.00	<i>Rothomagensis</i> , 2 to 3 ft.	50.00
No. 2	20.00	18 to 24 ins.	40.00
		12 to 18 ins.	25.00
COTONEASTER		PHILADELPHUS	
<i>Acutifolia</i> , 2 to 3 ft.	55.00	<i>Coronarius</i> , 2 to 3 ft.	50.00
18 to 24 ins.	40.00	<i>Coronarius</i> , 12 to 18 ins.	25.00
12 to 18 ins.	25.00	<i>Minnesota Snowflake</i> , 3 to 4 ft.	90.00
<i>Divaricata</i> , 12 to 18 ins.	45.00	18 to 24 ins.	60.00
		<i>Virginalis</i> , 12 to 24 ins.	45.00
GRAPE MYRTLE		<i>Virginalis</i> , 12 to 18 ins.	28.00
<i>Pink</i> , 12 to 18 ins.	25.00	PRUNUS (Bush Cherry)	
<i>Red</i> , 2 to 3 ft.	45.00	<i>Besseyi</i> , 3 to 4 ft.	55.00
<i>Red</i> , 12 to 18 ins.	25.00	<i>Besseyi</i> , 2 to 3 ft.	45.00
		<i>Tomentosa</i> , 2 to 3 ft.	55.00
CYDONIA		18 to 24 ins.	45.00
<i>Japonica</i> , 18 to 24 ins.	40.00	12 to 18 ins.	30.00
<i>Japonica</i> , 12 to 18 ins.	30.00		
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<i>Fortunei</i> , 2 to 3 ft.	50.00	<i>Billiardii</i> , 18 to 24 ins.	40.00
<i>Intermedia Spectabilis</i> , 3 to 4 ft.	65.00	<i>Billiardii</i> , 12 to 18 ins.	25.00
2 to 3 ft.	50.00	<i>Vanhouttei</i> , 2 to 3 ft.	35.00
18 to 24 ins.	40.00	18 to 24 ins.	25.00
<i>Spring Glory</i> , 2 to 3 ft.	55.00	12 to 18 ins.	18.00
<i>Spring Glory</i> , 18 to 24 ins.	45.00		
		TAMARIX	
		<i>Africana</i> , 3 to 4 ft.	55.00
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		<i>Hispida</i> , 18 to 24 ins.	35.00
		VIBURNUM	
		<i>Opulus Sterile</i> , 12 to 18 ins.	35.00
		WEIGELA	
		<i>Eva Rathke</i> , 12 to 18 ins.	45.00

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2000 Abies Lasiocarpa, 3-yr., S. 5 to 6 ins.	.05	.04½	3000 Picea Pungens, 3-yr., S. 2 to 5 ins.	.06	\$0.05
200 Acer Disssectum Atropurpureum, pot grafts	.75		1000 Pinus Montana Mughus, 2-yr., T. 2 to 4 ins.	.10	.09
5000 Acer Palmatum, 1-yr., S.	.08	.07½	1000 Pinus Nigra, 3-yr., T. 9 to 12 ins.	.10	.09
500 Acer Palmatum (seedlings), 2-yr., T. 6 to 8 ins.	.35		1000 Pinus Strobus, 3-yr., S. 5 to 10 ins.	.45	.04½
400 Acer Palmatum Atropurpureum, pot grafts	.75		5000 Pinus Strobus, 3-yr., T. 4 to 8 ins.	.09	.08
10,000 Althaea (Rose of Sharon), 1-yr., S.	.04½	.03½	2000 Pseudotsuga Douglasi, 3-yr., S. 3 to 6 ins.	.06	.05
500 Aristolochia Sipho, 1-yr., T.	.25		4000 Pseudotsuga Douglasi, 3-yr., T. 4 to 8 ins.	.12	.10
2000 Azalea Mollis, 2-yr., T. 6 to 8 ins.	.25	.20	5000 Rosa Rugosa (mixed), 1-yr., S.	.05½	.04½
1000 3-yr., T. 9 to 12 ins.	.40		400 Sorbus Aucuparia (whips), 2 to 3 ft.	.35	
400 3-yr., T. 12 to 15 ins.	.50		500 3 to 4 ft.	.50	
400 (3 buds up), 4-yr., TT. 9 to 12 ins.	.65		100 5 to 6 ft.	.75	
400 (3 buds up), 4-yr., TT. 12 to 15 ins.	.75		2000 Sytax Japonica, 1-yr., S. 15 to 18 ins.	.08	.07
5000 Berberis Thunbergi Atropurpurea, 1-yr., S.	.05	.04½	250 Symphoricarpos Mollis, T. 9 to 12 ins.	.07	.06
(Special permit required)			250 Symphoricarpos Racemosa, T. 9 to 12 ins.	.07	.06
2000 Calycanthus Floridus, 1-yr., S. 6 to 10 ins.	.08	.07	1500 Symphoricarpos Vulgaris, T. 9 to 12 ins.	.07	.06
100 Cedrus Atlantica Glauca, pot grafts	.60		2000 Taxus Cuspidata, T. 6 to 9 ins.	.30	.25
2000 Chamaecyparis Obtusa, 3-yr., T. 4 to 8 ins.	.06	.05	2000 Taxus Cuspidata Capitata, 2-yr., S.	.12	.11
300 Chamaecyparis Obtusa Cripps, pot grafts	.45		1000 Taxus Cuspidata Capitata, 3-yr., T. (Sdg.)	.35	.30
200 Chamaecyparis Obtusa Gracilis Compacta, pot grafts	.45		1200 Taxus Media Hicks, 2-yr., T. 6 to 9 ins.	.60	.55
500 Chamaecyparis Plumosa, 3-yr., T. 10 to 12 ins.	.30	.25	1000 Taxus Media Hicks, 4-yr., TT. 10 to 12 ins.	.60	.55
500 Chamaecyparis Plumosa Aurea, 2-yr., T.	.30	.25	2000 Thuja Occidentalis, 2-yr., S. 2 to 5 ins.	.04	.03
8 to 10 ins.	.30	.25	3000 Thuja Occidentalis (understocks)	.07	.06
3000 Cornus Florida (light), 1-yr., S. 6 to 10 ins.	.05	.04	500 Thuja Occidentalis Boothii, 2-yr., T.	.30	.25
1000 Cornus Florida (whips), 2-yr., S. 18 to 24 ins.	.20		800 Thuja Occidentalis Brothakeri, 2-yr., T.	.35	
2000 Cornus Florida Rubra, pot grafts	.45	.42½	500 6 to 10 ins.	.35	
600 Crytomeria Japonica Lobbi Compacta, pot grafts	.60		400 Thuja Occidentalis Columbia, TT. 12 to 15 ins.	.55	.50
5000 Cydonia Japonica, 1-yr., S.	.05	.03½	400 Thuja Occidentalis Compacta, 2-yr., T.	.30	.25
2000 Cydonia Japonica, 2-yr., S.	.08½	.07½	800 Thuja Occidentalis Douglasi (Spiralis), 2-yr., T.	.30	.25
2000 Euonymus Patens, 2-yr., T.	.20		400 Thuja Occidentalis Douglasi (Spiralis), 4-yr., TT. 15 to 18 ins.	.70	.60
1000 Euonymus Radiatus, 2-yr., T. 10 to 15 ins.	.35	.30	400 Thuja Occidentalis Elegantisima, 2-yr., T.	.30	.25
1000 Euonymus Radiatus Coloratus, TT. 10 to 12 ins.	.35	.30	6 to 10 ins.	.30	.25
600 Euonymus Radiatus, Variegated, T. 6 to 10 ins.	.35	.30	300 Thuja Occidentalis Globosa, 2-yr., T. 5 to 9 ins.	.30	.25
100 Fagus Sylvatica Riversi, 1-yr., grafts	2.00		300 Thuja Occidentalis Lutea (Geo. Peabody), 2-yr., T. 6 to 10 ins.	.30	.25
18 to 24 ins.	.07	.06	1000 Thuja Occidentalis Nigra (Dark American), 1-yr., T.	.15	.14
3000 Forsythia Spectabilis, 1-yr., C.	.15	.12½	2-yr., T. 8 to 12 ins.	.30	.25
1000 Hydrangea Hills of Snow, 1-yr., 12 to 18 ins.	.15	.14	800 4-yr., TT. 12 to 15 ins.	.60	.55
1000 Hydrangea P.G., 1-yr., 9 to 12 ins.	.15	.14	1000 Thuja Occidentalis Pyramidalis, 2-yr., T.	.30	.25
500 Ilex Crenata Convexa, 1-yr., T. 4 to 6 ins.	.25		8 to 12 ins.	.30	.25
600 Juniperus Depressa Plumosa, 2-yr., T. 6 to 8 ins.	.35	.32½	1000 4-yr., TT. 10 to 15 ins.	.60	.55
1000 Juniperus Glauca Hetzi, 2-yr., T. 6 to 8 ins.	.35	.32½	2000 Thuja Occidentalis Rosenthali, 6 to 10 ins.	.30	.25
600 Juniperus Hills of Snow, 1-yr., 12 to 15 ins.	.25		250 Thuja Occidentalis Wareana Plicata, 2-yr., T. 5 to 10 ins.	.30	
500 Juniperus Hills of Snow, 2-yr., 12 to 15 ins.	.45		1000 Thuja Occidentalis Woodwardi, 2-yr., T. 5 to 10 ins.	.30	.25
200 Juniperus Keteleeri, pot grafts	.45		300 Thuja Orientalis Aurea Nana, 2-yr., grafts	.60	.50
200 Juniperus Pfitzeriana, pot grafts	.45		10,000 Tsuga Canadensis, 2-yr., S. 3 to 4 ins.	.06	.05
200 Juniperus Pfitzeriana, 4-yr., TT. 10 to 12 ins.	.85	.75	1000 2-yr., T. 6 to 12 ins.	.30	.25
200 Juniperus Pfitzeriana Kallay Compacta, pot grafts	.45		2000 TT. 10 to 12 ins.	.40	.35
200 Juniperus Squamata Meyer, pot grafts	.45		2000 TT. 12 to 15 ins.	.55	.50
2000 Larix Kaempferi, 2-yr., S.	.04	.03	2000 Viburnum Burckwoodi, B. 2½-in. pots	.25	.22½
3000 Ligustrum Iodolum (light), 1-yr., 12 to 18 ins.	.04	.03½	2000 Viburnum Dilatatum, 1-yr., S. 8 to 10 ins.	.07	.06
1500 Ligustrum Iodolum, 1-yr., T. 9 to 18 ins.	.07	.06	200 Viburnum Dilatatum, 2-yr., T.	.20	.20
5000 Ligustrum Ovalifolium (light), 1-yr., 12 to 18 ins.	.04	.03½	2000 Viburnum Mollis, T. 6 to 9 ins.	.08	.07½
200 Magnolia Rustica Rubra, 1-yr., grafts	.75		500 Weigela Rosen, 1-yr., C. 6 to 9 ins.	.10	
12 to 18 ins.	.10	.07½	500 Weigela Vanicelli, 1-yr., 12 to 18 ins.	.20	
5000 Mahonia Aquifolia, 2-yr., S. 4 to 6 ins.	.10		200 Weigela Vanicelli, 1-yr., 18 to 24 ins.	.30	
200 Malus Niedzwetzkyana, 1-yr., grafts, 2 to 3 ft.	.35				
100 Malus Purpurea Lemoinei, 1-yr., grafts, 2 to 3 ft.	.35				
1000 Philadelphus Virginialis, 2-yr., 15 to 18 ins.	.30	.25			
700 Physocarpus Monogynus, 1-yr., C. 9 to 12 ins.	.08	.07			
3000 Picea Canadensis Alba, 3-yr., T. 6 to 10 ins.	.11	.10			
5000 Picea Excelsa, 3-yr., S. 4 to 9 ins.	.04	.03½			
3000 Picea Excelsa, 3-yr., TT. 12 to 15 ins.	.30	.25			

Please note—all pot grafts will be ready for shipment early May, 1953, at proper time.

All the above is grown by our best growers of lining-out material. All F.O.B. shipping points, packing additional at cost. Usual terms to trade accounts. The above is listed subject to prior sale and subject to usual trade terms as mentioned in our trade lists. This cancels all PREVIOUS LISTS.

WHOLESALE LIST OF DECIDUOUS STOCK — FEBRUARY 20, 1953

TREES		HEDGES	
	Each		Each
125 Acer Dasyacarpum, 6 to 8 ft.	\$1.10	2000 Berberis Thunbergi, \$180 per 1000, 12 to 18 ins.	\$0.30
100 8 to 10 ft.	1.50	5000 \$250 per 1000, 18 to 24 ins.	.30
75 10 to 12 ft.	3.00	1500 350 per 1000, 2 to 2½ ft.	.12
90 Acer Dasyacarpum Wieri, 6 to 8 ft.	1.65	250 Ligustrum Amurensis, 9 to 12 ins.	.40
120 8 to 10 ft.	2.50	400 12 to 18 ins.	.11
250 10 to 12 ft.	4.00	1475 18 to 24 ins.	.16
150 Acer Rubrum, 8 to 10 ft.	3.75	2000 2 to 3 ft.	.29½
125 10 to 12 ft.	4.75	5000 \$250 per 1000, 3 to 4 ft.	.30
50 1½ to 1¾-in. cal.	6.00	200 Ligustrum Iodolum, \$200 per 1000, 2 to 3 ft.	.25½
250 Betula Alba, 6 to 8 ft.	3.00	500 Ligustrum Iodolum, \$250 per 1000, 3 to 4 ft.	.30
200 Betula Lacinata Pendula, 5 to 6 ft.	3.00	1000 Ligustrum Ovalifolium, \$150 per 1000, 2 to 3 ft.	.17
200 Betula Lacinata Pendula, 6 to 8 ft.	3.50	3000 Ligustrum Iodolum, \$200 per 1000, 3 to 4 ft.	.25
80 Catalpa Speciosa, 5 to 6 ft.	.80	3000 Ligustrum Ovalifolium, \$180 per 1000, 3 to 4 ft.	.20
150 Catalpa Speciosa, 6 to 8 ft.	1.10	1000 Ligustrum Regelianum, 18 to 24 ins.	.45
70 Chionanthus Virginicus, 18 to 24 ins.	1.10	50 2 to 2½ ft.	.35
100 Crataegus Paul's Scarlet, 5 to 6 ft.	4.00	200 2½ to 3 ft.	.70
200 Crataegus Paul's Scarlet, 6 to 7 ft.	4.00		
100 Gleditsia Triacanthus Inermis, 8 to 10 ft.	3.50		
100 Gleditsia Triacanthus Inermis, 6 to 10 ft.	7.75		
70 Malus Adamsi (new pink), 2 to 3 ft.	1.00		
20 Malus Adamsi, 3 to 4 ft.	1.25		
60 Malus Dolgo, 4 to 5 ft.	1.25		
155 Malus Purpurea Eleyi, 4 to 5 ft.	1.25		
155 5 to 6 ft.	1.50		
250 extra-heavy, 5 to 6 ft.	2.50		
200 Malus Hopsa, 4 to 5 ft.	1.25		
200 5 to 6 ft.	1.50		
100 extra-heavy, 5 to 6 ft.	2.50		
40 Morus Alba, 2 to 3 ft.	.40		
150 4 to 6 ft.	.60		
100 6 to 8 ft.	.85		
100 8 to 10 ft.	1.00		
45 Populus Eugenel, 8 to 10 ft.	1.00		
60 Populus Eugenel, 10 to 12 ft.	2.00		
150 Populus Nigra Italica, 8 to 10 ft.	.85		
400 Populus Nigra Italica, 10 to 12 ft.	1.25		
100 Prunus Serrulata Kwanzan, 6 to 7 ft.	1.25		
200 Salix Babylonica, 5 to 6 ft.	1.50		
500 Salix Babylonica, 6 to 8 ft.	1.75		
300 Salix Blanda, 6 to 8 ft.	1.25		
500 Salix Blanda, 8 to 10 ft.	1.50		
150 Salix Niobe, 10 to 12 ft.	1.50		
50 Sorbus Amerianna, 4 to 5 ft.	2.50		
50 Sorbus Amerianna, 5 to 6 ft.	2.50		

HARDY VINES

595 Ampelopsis Engelmanni, 2-yr., No. 1.	.35
200 Ampelopsis Heterophylla, 2-yr., No. 1.	.30
200 Ampelopsis Lowi, 3-in. pots.	.40
900 Ampelopsis Lowi, 2-yr., No. 1.	.50
800 Ampelopsis Quinquifolia, 2-yr., No. 1.	.35
700 Ampelopsis Vetchi, 2-yr., No. 1.	.40
300 Ampelopsis Vetchi, 3-yr., No. 1.	.40
300 Celastrus Orbiculatus, 2-yr., No. 1.	.40
50 Celastrus Scandens, 2-yr., No. 1.	.40
50 Clematis Henryi, 2-yr., No. 1.	.90
100 Clematis Jackmani, 2-yr., No. 1.	.90
60 Clematis Mme. Ed. Andre, 2-yr., No. 1.	.90
200 Clematis Mme. LeCouture, 2-yr., No. 1.	.90
250 Clematis Montana Rubens, 2-yr., No. 1.	.90
200 Clematis Nelly Moser, 2-yr., No. 1.	.90
100 Clematis Paniculata, 2-yr., No. 1.	.90
50 Clematis Ramona, 2-yr., No. 1.	.90
50 Clematis Ville de Lyon, 2-yr., No. 1.	.90
200 Hydrangea Petiolaris, 1-yr., potted.	.40
700 Lonicera Halliana, 2-yr., No. 1.	.30
1000 Lonicera Halliana, 2-yr., No. 1½	.25
200 Lonicera Heckrotti, 2-yr., No. 1.	.45
300 Lonicera Sempervirens, 2-yr., No. 1.	.40
115 Lonicera Semp. Magnifica, 2-yr., No. 1.	.50
100 Polygonum Aubreyi, 2-yr., No. 1.	.50
150 Wistaria Sinensis (Purple), 2-yr., No. 1.	.35

WHOLESALE LIST OF DECIDUOUS STOCK — FEBRUARY 20, 1953

SHRUBS

	Each
100 <i>Acanthopanax Pentaphyllum</i> , 18 to 24 ins.	\$0.35
400 2 to 3 ft.	.45
800 3 to 4 ft.	.55
250 4 to 5 ft.	.75
120 <i>Althaea Coelestis</i> , 18 to 24 ins.	.50
80 <i>Althaea Coelestis</i> , 2 to 3 ft.	.60
800 <i>Althaea</i> (Rose of Sharon), 2 to 3 ft.	.40
400 <i>Althaea</i> (Rose of Sharon), 3 to 4 ft.	.50
(Assorted colors, single and double.)	
50 <i>Amelanchier Canadensis</i> , 2 to 3 ft.	.75
50 3 to 4 ft.	1.00
100 4 to 5 ft.	1.35
50 5 to 6 ft.	1.65
80 6 to 8 ft.	2.35
30 8 to 10 ft.	3.50
60 <i>Aronia Brillantissima</i> , 4 to 5 ft.	1.00
100 <i>Aronia Melanocarpa</i> , 18 to 24 ins.	.45
121 <i>Aronia Melanocarpa</i> , 2 to 3 ft.	.60
50 <i>Buddleia Alternifolia</i> , 2-yr., No. 1.	.45
300 <i>Buddleia Charming</i> , No. 1.	.45
100 <i>Buddleia Dubonnet</i> , No. 1.	.45
200 <i>Buddleia Ile de France</i> , No. 1.	.45
40 <i>Callierpa Purpurea</i> , 18 to 24 ins.	.40
80 2 to 3 ft.	.50
320 3 to 4 ft.	.60
200 <i>Calycanthus Floridus</i> , 18 to 24 ins.	.50
75 <i>Caragana Arborescens</i> , 18 to 24 ins.	.45
50 <i>Caragana Arborescens</i> , 2 to 3 ft.	.50
400 <i>Clethra Alnifolia</i> , 12 to 18 ins.	.40
70 <i>Clethra Alnifolia</i> , heavy, 2 to 2 1/2 ft.	.50
30 <i>Cornus Alba Sibirica</i> , 18 to 24 ins.	.35
900 2 to 3 ft.	.40
500 3 to 4 ft.	.50
60 <i>Cornus Amomum</i> , 3 to 4 ft.	.60
35 <i>Cornus Amomum</i> , 4 to 5 ft.	.60
50 <i>Cornus Paniculata</i> , 18 to 24 ins.	.40
20 <i>Cornus Paniculata</i> , 2 to 3 ft.	.45
110 <i>Cornus Stolonifera</i> Lutea, 18 to 24 ins.	.35
270 2 to 3 ft.	.45
70 3 to 4 ft.	.55
350 <i>Cotoneaster Horizontalis</i> , pots, 9 to 12 ins.	1.25
600 pots, 12 to 15 ins.	1.35
150 pots, 15 to 18 ins.	2.00
100 pots, 18 to 24 ins.	2.75
400 <i>Cydonia Japonica</i> , 12 to 18 ins.	.30
800 18 to 24 ins.	.40
100 2 to 3 ft.	.50
80 <i>Cydonia Japonica Rubra</i> , 12 to 18 ins.	.45
100 <i>Cydonia Japonica Rubra</i> , 18 to 24 ins.	.65
135 <i>Cydonia Japonica Vermilion</i> , 12 to 18 ins.	.50
600 <i>Deutzia Scabra</i> Pride of Rochester, 18 to 24 ins.	.30
275 2 to 3 ft.	.40
300 3 to 4 ft.	.50
120 4 to 5 ft.	.60
300 <i>Deutzia Lemoinel</i> , 18 to 24 ins.	.50
64 <i>Deutzia Magnifica</i> , 3 to 4 ft.	.50
130 <i>Deutzia Wateri</i> , 2 to 3 ft.	.45
80 <i>Deutzia Wateri</i> , 3 to 4 ft.	.55
110 <i>Desmodium Penduliflorum</i> , No. 1.	.40
100 <i>Elaeagnus Argentea</i> , 18 to 24 ins.	.40
40 <i>Eunonymus Bungeanus</i> , 3 to 4 ft.	.55
65 <i>Eunonymus Bungeanus</i> , 4 to 5 ft.	.75
80 <i>Eunonymus Europaeus</i> , 18 to 24 ins.	.35
50 2 to 3 ft.	.45
50 3 to 4 ft.	.55
200 <i>Eunonymus Yedoensis</i> , 18 to 24 ins.	.45
200 2 to 3 ft.	.50
150 3 to 4 ft.	.70
75 <i>Forsythia Fortunei</i> , 18 to 24 ins.	.35
200 2 to 3 ft.	.45
275 3 to 4 ft.	.55
150 <i>Forsythia Intermedia</i> , 2 to 3 ft.	.45
140 <i>Forsythia Intermedia</i> , 3 to 4 ft.	.60
300 <i>Forsythia Spectabilis</i> , 2 to 3 ft.	.45
200 3 to 4 ft.	.55
600 4 to 5 ft.	.75
100 <i>Forsythia Ovata</i> , 12 to 18 ins.	.35
300 18 to 24 ins.	.45
300 2 to 3 ft.	.55
235 3 to 4 ft.	.65
120 light, 2-branched, 2 to 3 ft.	.35
57 <i>Forsythia Primulina</i> , 2 to 3 ft.	.45
250 <i>Forsythia Spring Glory</i> , 2 to 3 ft.	.50
400 3 to 4 ft.	.60
200 4 to 5 ft.	.80
130 <i>Forsythia suspensa</i> , 2 to 3 ft.	.50
50 3 to 4 ft.	.60
50 4 to 5 ft.	.75
50 <i>Hamamelis Vernalis</i> , 2 to 3 ft.	.60
70 <i>Hamamelis Vernalis</i> , 3 to 4 ft.	.75
50 <i>Hamamelis Virginiana</i> , 18 to 24 ins.	.50
70 2 to 3 ft.	.60
200 3 to 4 ft.	.75
20 4 to 5 ft.	.85
300 <i>Hydrangea A. G.</i> , Hills of Snow, 18 to 24 ins.	.45
250 2 to 3 ft.	.55
140 3 to 4 ft.	.70
250 <i>Hydrangea F. G.</i> (Peegee hydrangea), 12 to 18 ins.	.30
300 18 to 24 ins.	.40
400 2 to 3 ft.	.45
100 <i>Hydrangea P. G.</i> (Tree form), 4 to 5 ft.	1.75
100 <i>Hypericum Densiflorum</i> , 18 to 24 ins.	.60
50 <i>Ilex Verticillata</i> , 18 to 24 ins.	.60
150 2 to 3 ft.	.75
30 3 to 4 ft.	1.00
100 <i>Kolkwitzia Amabilis</i> , 12 to 18 ins.	.30
300 18 to 24 ins.	.45
300 2 to 3 ft.	.60
200 3 to 4 ft.	.75
40 <i>Lonicera Bella Albida</i> , 2 to 3 ft.	.45
70 <i>Lonicera Bella Albida</i> , 3 to 4 ft.	.55

SHRUBS

	Each
75 <i>Lonicera Morrowi</i> , 18 to 24 ins.	.35
150 2 to 3 ft.	.45
75 3 to 4 ft.	.60
77 <i>Lonicera Tatarica Alba</i> , 2 to 3 ft.	.45
50 3 to 4 ft.	.55
40 4 to 5 ft.	.65
300 <i>Lonicera Tatarica Rosa</i> , 2 to 3 ft.	.45
240 3 to 4 ft.	.55
367 4 to 5 ft.	.65
300 3 to 4 ft.	.55
380 4 to 5 ft.	.65
100 <i>Lonicera Zabeli</i> , 18 to 24 ins.	.30
300 2 to 3 ft.	.40
80 4 to 5 ft.	.70
292 <i>Philadelphus Albatus</i> , 2 to 3 ft.	.45
345 <i>Philadelphus Albatus</i> , 18 to 24 ins.	.35
165 <i>Philadelphus Bouquet Blanc</i> , 3 to 4 ft.	.65
270 <i>Philadelphus Coronarius</i> , 18 to 24 ins.	.30
300 2 to 3 ft.	.40
480 3 to 4 ft.	.50
20 <i>Philadelphus Enchantment</i> , 2 to 3 ft.	.40
32 <i>Philadelphus Glacier</i> , 2 to 3 ft.	.55
115 <i>Philadelphus Glacier</i> , 3 to 4 ft.	.65
75 <i>Philadelphus Grandiflorus</i> , 18 to 24 ins.	.35
300 2 to 3 ft.	.45
50 3 to 4 ft.	.50
500 <i>Philadelphus Virginialis</i> , \$300 per 1000, 18 to 24 ins.	.35
\$400 per 1000, 2 to 3 ft.	.45
500 3 to 4 ft.	.55
165 <i>Physocarpus Opulifolius Nana</i> , 2 to 3 ft.	.45
65 <i>Physocarpus Opulifolius Nana</i> , 3 to 4 ft.	.55
450 <i>Prunus Glandulosa Rosen O. R.</i> , 18 to 24 ins.	.50
400 <i>Prunus Glandulosa Rosen O. R.</i> , 2 to 3 ft.	.65
100 <i>Prunus Trifida</i> , 4 to 5 ft.	.55
15 <i>Rhodotypos Kerrioides</i> , 2 to 3 ft.	.65
75 <i>Rhodotypos Kerrioides</i> , 3 to 4 ft.	.75
130 <i>Rosa Rugosa Alba</i> , 18 to 24 ins.	.50
330 2 to 3 ft.	.70
105 3 to 4 ft.	.80
930 <i>Rosa Rugosa Rubra</i> , 12 to 18 ins.	.60
800 18 to 24 ins.	.75
780 2 to 3 ft.	.60
260 3 to 4 ft.	.80
200 <i>Salix Discolor</i> , 2 to 3 ft.	.40
400 <i>Salix Discolor</i> , 3 to 4 ft.	.50
930 <i>Salix Purpurea</i> , 3 to 4 ft.	.55
45 <i>Salix Purpurea Nana</i> , 12 to 18 ins.	.30
400 <i>Spiraea Anthony Waterer</i> , 12 to 15 ins.	.35
240 <i>Spiraea Anthony Waterer</i> , 15 to 18 ins.	.65
140 <i>Spiraea Arguta</i> , 2 to 3 ft.	.45
500 <i>Spiraea Froeheli</i> , 12 to 18 ins.	.40
100 18 to 24 ins.	.50
110 2 to 3 ft.	.50
200 <i>Spiraea Prunifolia</i> , 2 to 3 ft.	.50
156 <i>Spiraea Thunbergi</i> , 18 to 24 ins.	.35
250 2 to 3 ft.	.45
30 3 to 4 ft.	.55
100 <i>Spiraea Trichocarpa</i> , 2 to 3 ft.	.45
600 <i>Spiraea Vanhouttei</i> , 18 to 24 ins.	.25
800 2 to 3 ft.	.35
300 <i>Spiraea Vanhouttei</i> , heavy, 3 ft.	.45
50 <i>Symphoricarpos Chenuitii</i> , 18 to 24 ins.	.45
2 2 to 3 ft.	.55
150 3 to 4 ft.	.55
50 <i>Symphoricarpos Racemosus</i> , 18 to 24 ins.	.35
200 2 to 3 ft.	.50
200 3 to 4 ft.	.70
100 <i>Symphoricarpos Vulgaris</i> , 12 to 18 ins.	.30
10 18 to 24 ins.	.40
250 2 to 3 ft.	.35
150 3 to 4 ft.	.50
100 <i>Syringa Hyb. Belle de Nancy</i> , 2 to 3 ft.	1.00
Charles Joly, 2 to 3 ft.	1.00
Charles X., 2 to 3 ft.	1.00
Marie Lefevre, 2 to 3 ft.	1.00
Mrs. Edward Harding, 2 to 3 ft.	1.00
Paul Thirion, 2 to 3 ft.	1.00
75 <i>Syringa Josikaea</i> , 12 to 18 ins.	.35
50 <i>Syringa Josikaea</i> , 18 to 24 ins.	.45
50 <i>Syringa Persica</i> , 18 to 24 ins.	.45
400 2 to 3 ft.	.35
180 3 to 4 ft.	.70
50 <i>Syringa Persica Alba</i> , 18 to 24 ins.	.70
100 2 to 3 ft.	.85
50 3 to 4 ft.	1.00
100 <i>Syringa Rothomagensis</i> , 18 to 24 ins.	.40
400 2 to 3 ft.	.50
100 3 to 4 ft.	.70
170 <i>Syringa Villosa</i> , 18 to 24 ins.	.45
150 <i>Syringa Villosa</i> , 2 to 3 ft.	.35
200 <i>Syringa Vulgaris</i> , 18 to 24 ins.	.40
300 2 to 3 ft.	.50
200 <i>Syringa Vulgaris Alba</i> , 18 to 24 ins.	.50
300 2 to 3 ft.	.60
200 3 to 4 ft.	.70
300 3 to 4 ft.	.85
200 <i>Tamarix Africana</i> , 3 to 4 ft.	.50
200 <i>Tamarix Odesana</i> , 18 to 24 ins.	.30
100 2 to 3 ft.	.40
58 3 to 4 ft.	.50
350 <i>Viburnum Dentatum</i> , 18 to 24 ins.	.40
310 2 to 3 ft.	.50
80 3 to 4 ft.	.65
50 <i>Viburnum Lentago</i> , 3 to 4 ft.	.65
125 <i>Viburnum Mollis</i> , 2 to 3 ft.	.45
500 <i>Viburnum Opulus</i> , 18 to 24 ins.	.45
350 2 to 3 ft.	.60
250 3 to 4 ft.	.70
200 <i>Viburnum Opulus Sterile</i> , 2 to 3 ft.	.60
160 <i>Weigela Rosa Hendersoni</i> , 18 to 24 ins.	.40
200 <i>Weigela Rosa Hendersoni</i> , 2 to 3 ft.	.50

PLEASE ORDER EARLY. Stock is short, as you will see by referring to these counts. Shipments of deciduous stock will be shipped from Westfield, Mass.; Yalesville, Conn.; and Geneva, New York. Usual terms. We are wholesale only. Please order in multiples of 10, 30 or more of a kind take the 100 rate listed in this list. THIS LIST CANCELS ALL PREVIOUS LISTS.

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20 MILLION TREES A YEAR

	Per 100	Per 1000		Per 100	Per 1000
SCOTCH PINE (Riga)			BLACK HILLS SPRUCE		
2-yr., S., 2 to 4 ins...	\$ 3.00	\$15.00	2-yr., S., 2 to 5 ins...	\$ 4.00	\$ 20.00
			3-yr., S., 5 to 10 ins...	12.00	60.00
SPECIAL SCOTCH PINE			COLORADO BLUE SPRUCE		
Grown from seeds of our own collection. Parent trees exceptionally healthy, straight stems, holding good green color.			(From hand-picked seeds)		
2-yr., S., 3 to 6 ins...	5.00	25.00	2-yr., S., 2 to 4 ins...	5.00	25.00
2-yr., S., 4 to 8 ins...	7.00	35.00	2-yr., S., 3 to 6 ins...	7.00	35.00
3-yr., S., 5 to 10 ins...	9.00	45.00	3-yr., S., 5 to 10 ins...	11.00	55.00
AUSTRIAN PINE			NORWAY SPRUCE		
2-yr., S., 3 to 7 ins...	7.00	35.00	2-yr., S., 3 to 5 ins...	4.00	20.00
3-yr., S., 8 to 16 ins...	11.00	55.00	2-yr., S., 5 to 10 ins...	7.00	35.00
AMERICAN RED PINE			3-yr., S., 10 to 18 ins...	12.00	60.00
2-yr., S., 3 to 5 ins...	6.00	30.00	Fast-growing—note size		
3-yr., S., 6 to 12 ins...	11.00	55.00	4-yr., T., 8 to 12 ins...	16.00	80.00
WHITE PINE			Mostly grafting size		
2-yr., S., 2 to 6 ins...	4.00	20.00	SERBIAN SPRUCE		
3-yr., S., 5 to 10 ins...	7.00	35.00	(Picea Omorika)		
MUGHO PINE			3-yr., S., 7 to 12 ins...	13.00	65.00
2-yr., S., 2 to 3 ins...	5.00	25.00	CANADIAN HEMLOCK		
3-yr., S., 4 to 7 ins...	8.00	40.00	2-yr., S., 2 to 5 ins...	7.00	35.00
BANKS PINE			3-yr., S., 8 to 14 ins...	17.00	85.00
3-yr., S., 12 to 18 ins...	5.00	25.00	AMERICAN ARBORVITAE		
DOUGLAS FIR			2-yr., S., 2 to 5 ins...	5.00	25.00
2-yr., S., 4 to 8 ins...	6.00	30.00	4-yr., S., 6 to 12 ins...	10.00	50.00
3-yr., S., 6 to 12 ins...	9.00	45.00	CEDRUS ATLANTICA GLAUC		
CONCOLOR FIR			2-yr., S., 6 to 12 ins...	17.00	
2-yr., S., 3 to 6 ins...	11.00	55.00	JUNIPERUS VIRGINIANA		
3-yr., S., 5 to 10 ins...	15.00	75.00	2-yr., S., 6 to 12 ins...	6.00	30.00
FRASER FIR			4-yr., S., 12 to 20 ins...	8.00	40.00
3-yr., S., 4 to 8 ins...	14.00	70.00	JAPANESE LARCH		
BALSAM FIR			2-yr., S., 8 to 16 ins...	5.00	25.00
3-yr., S., 3 to 6 ins...	7.00	35.00	3-yr., S., 36 to 48 ins...	8.00	40.00
WHITE SPRUCE			NORWAY MAPLE		
2-yr., S., 4 to 8 ins...	6.00	30.00	1-yr., S., 5 to 9 ins...	12.00	60.00
3-yr., S., 8 to 16 ins...	10.00	50.00	2-yr., S., 10 to 24 ins...	20.00	100.00
			WHITE DOGWOOD		
			1-yr., S., 5 to 10 ins...	9.00	45.00
			BOX ELDER (Acer Negundo)		
			1-yr., S., 6 to 9 ins...	3.00	15.00

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pink-purple gerardias, mostly meadow and marsh dwellers, all belong to the same coterie of floral thieves. I have found it useless to attempt transplanting any of them . . ."

The foregoing remarks probably refer to the yellow-flowered species, three or four in number, including the annual or biennial *G. pedicularia*, but may also apply to rosy-purple kinds, which seem less delicate. But of that I cannot say because all have behaved poorly for me.

Sabatia

As I was writing the foregoing note on gerardias, a letter came from that fine New England horticulturist, Wilfrid Wheeler, containing seeds marked *Sabatia chloroides fernaldi* and a note on the plant as follows: "This is the Cape Cod type of chloroides and is by far the best of the group. It is really a remarkable flower, blooming in July and August, and in places where it does well it covers the edges of shallow ponds and grows along the edges of fresh marshes. I have grown it in the garden where there is plenty of moisture. I am not sure of its hardiness, but as it is usually covered with water in the winter it should go through in many places. This type fernaldi was named for Dr. Fernald and is far larger and better in color than chloroides. I hope that you can find someone that will plant it on the edge of a shallow pond where the bottom is peaty."

Thanks to Mr. Wheeler for the seeds, part of which will be in the only marshy place we have on the place. As he was generous when he measured out the seeds, I shall be glad to share them with a few other experimenters who have suitable growing conditions. It also prompts a few words on the genus as a whole.

The books tell us that *sabatia* (also spelled *sabbatia* at times) is made up of 15 to 20 species, mostly confined to the United States but extending as well into Cuba, I believe. Had they been less exacting in their requirements, the showier kinds, which include the species and its varieties mentioned by Mr. Wheeler, would no doubt be popular in gardens. But, generally speaking, they have little quirks which would not endear them to the busy gardener. Thus, *Sabatia angularis*, known in this state as bitterbloom and squarestem *sabatia*, is, contrary to what one reads, no more than a biennial. And gardeners do not take kindly to biennials unless they are outstanding. On the other hand, true perennials, such as *S. lanceolata* appears to be, may not be showy with their small white flow-

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HARDY DECIDUOUS FLOWERING SHRUBS

	Per 10	Per 100	Per 1000
Almond, <i>Prunus Glandulosa</i> (Double, Pink-flowering Almond), Own-root.			
12 to 18 ins., Tr., well-br.	\$3.00	\$20.00	\$175.00
18 to 24 ins., Tr., well-br.	3.50	25.00	225.00
2 to 3 ft., Tr., well-br.	4.50	40.00	350.00

Deutzia Scabra

Varieties:

Candida , Double White			
Crenata , Double Pink			
Pride of Rochester , Double			
12 to 18 ins., well-br.	1.00	6.00	
18 to 24 ins., well-br.	2.00	12.50	
2 to 3 ft., well-br.	2.50	15.00	

Forsythia Fortunei (Fortune Forsythia) **Forsythia Intermedia** (Border Forsythia)

18 to 24 ins., 2-yr., well-br.	1.50	12.00	
2 to 3 ft., 2-yr., well-br.	2.00	15.00	

Hydrangea Paniculata Grandiflora (Peegee Hydrangea)

18 to 24 ins., 2-yr., well-br.	3.00	25.00	200.00
2 to 3 ft., 2-yr., well-br.	4.00	35.00	300.00

Lagerstroemia Indica

(Pink Crape Myrtle)

12 to 18 ins., 1 and 2 canes.	\$12.00	\$100.00	
18 to 24 ins., 1 and 2 canes.	15.00	125.00	
2 to 3 ft., 1 and 2 canes.	20.00	150.00	
12 to 18 ins., 2-yr., well-br.	\$2.50	20.00	150.00
18 to 24 ins., 2-yr., well-br.	3.00	25.00	200.00

Ligustrum Amurense

(Amur River North Privet)

L. O., field-grown.	3.00	25.00	
12 to 18 ins., 3 br.	1.25	8.00	70.00
18 to 24 ins., 3 br.	1.50	10.00	90.00

Ligustrum Ibolium (Ibolium Privet)

L. O., field-grown.	3.00	25.00	
6 to 12 ins., 2 br. and up.	3.50	30.00	
12 to 18 ins., 2 br.	1.00	7.00	60.00
18 to 24 ins., 2 br.	1.25	8.00	70.00

Viburnum Tomentosum (Double-file Viburnum)

4 to 6 ins., 1-yr., C.	1.50	12.00	
6 to 12 ins., 1-yr., C.	2.00	15.00	
12 to 18 ins., 2-yr., well-br.	6.00	50.00	
18 to 24 ins., 2-yr., well-br.	7.00	60.00	

Weigela Amabilis, Light Pink

Weigela Hendersoni, Dark Pink

Weigela Rosea, Pink

12 to 18 ins., 2-yr., br.	2.00	12.50	
18 to 24 ins., 2-yr., br.	2.50	20.00	

FOREST AND SHADE TREES

	Per 10	Per 100	Per 1000
Acer Dasycarpum (Silver Maple)			
6 to 12 ins., S.	\$ 1.50	\$ 12.00	
12 to 18 ins., S.	2.00	17.50	
Cornus Florida Rubra (Pink Dogwood)			
6 to 12 ins.	\$ 6.00	50.00	450.00
12 to 18 ins.	10.00	80.00	700.00
Populus Nigra Italica (Lombardy Poplar)			
6 to 12 ins., C.		1.50	12.00
12 to 18 ins., C.		2.00	17.50
18 to 24 ins., C.		3.00	25.00
2 to 3 ft., C.		5.00	40.00

Prunus Persica (Flowering Peach), Double Red

12 to 18 ins., br., June buds.	\$2.00	\$15.00	
18 to 24 ins., br., June buds.	2.25	20.00	
2 to 3 ft., br., June buds.	3.00	25.00	
3 to 4 ft., br., June buds.	3.25	30.00	

Prunus, Newport (Purple Leaf Plum)

12 to 18 ins., June buds.	2.00	15.00	
18 to 24 ins., June buds.	2.25	20.00	
2 to 3 ft., June buds.	3.00	25.00	

NUT TREES

	Per 10	Per 100	Per 1000
Pecan, Stuart			
2 to 3 ft.	\$11.50	\$100.00	\$850.00
3 to 4 ft.	12.50	110.00	900.00
4 to 5 ft.	14.00	125.00	

VINES AND CREEPERS

	Per 10	Per 100	Per 1000
Lonicera Japonica Halliana (Hall's Japanese Honeysuckle)			
2-yr., tr., No. 3.	\$0.85	\$ 6.00	\$ 55.00
2 1/4-in. pot plants.	1.50	12.50	100.00
2 1/2-in. pot plants.	1.75	15.00	125.00
3-in. pot plants.	2.00	17.50	150.00

LINING-OUT STOCK

POTTED AND FIELD

	Per 100	Per 1000
Taxus Adams		
1-yr., pots, 4 to 6 ins.	\$ 16.00	\$150.00
2-yr., pots, 8 to 12 ins.	22.50	200.00
Taxus Andersoni		
1-yr., pots, 4 to 6 ins.	16.00	150.00
2-yr., pots, 6 to 8 ins.	22.50	200.00
3-yr., TT, fld., 6 to 8 ins.	30.00	275.00
4-yr., TT, fld., 8 to 12 ins.	45.00	400.00
5-yr., TT, fld., 12 to 15 ins.	100.00	800.00
Taxus Browni		
1-yr., pots, 4 to 6 ins.	18.00	160.00
2-yr., pots, 6 to 8 ins.	22.50	200.00
Taxus Capitata (cutting-grown)		
1-yr., pots, 4 to 6 ins.	18.00	160.00
Taxus Cuspidata		
1-yr., pots, 4 to 6 ins.	16.00	150.00
2-yr., pots, 6 to 10 ins.	22.50	200.00
3-yr., TT, fld., 6 to 8 ins.	30.00	275.00
Taxus Hatfieldi		
1-yr., pots, 4 to 6 ins.	16.00	150.00
2-yr., pots, 6 to 8 ins.	22.50	200.00
Taxus Hatfieldi, No. 18		
1-yr., pots, 4 to 6 ins.	20.00	180.00
2-yr., pots, 6 to 8 ins.	25.00	225.00
Taxus Hicksi		
1-yr., pots, 4 to 6 ins.	16.00	150.00
3-yr., TT, fld., 6 to 12 ins.	27.50	250.00
4-yr., TT, fld., 8 to 12 ins.	45.00	400.00
5-yr., TT, fld., 12 to 18 ins.	100.00	800.00
Taxus Hunnewelliana		
1-yr., pots, 4 to 6 ins.	20.00	180.00
Taxus Intermedia		
1-yr., pots, 4 to 6 ins.	16.00	150.00
2-yr., pots, 4 to 8 ins.	22.50	200.00
3-yr., TT, fld., 6 to 8 ins.	30.00	275.00
Taxus Mooni		
1-yr., pots, 4 to 6 ins.	16.00	150.00
4-yr., TT, fld., 8 to 12 ins.	45.00	400.00
Taxus Thayerae		
1-yr., pots, 4 to 6 ins.	16.00	150.00
2-yr., pots, 6 to 8 ins.	22.50	200.00
Taxus Vermuelen		
2-yr., pots, 6 to 8 ins.	22.50	200.00
Juniperus Andorra Compacta		
1-yr., pots, 4 to 6 ins.	18.00	160.00
2-yr., TT, fld., 6 to 8 ins.	27.50	250.00
Juniperus Glauca Hetzi		
1-yr., pots, 6 to 8 ins.	20.00	180.00
2-yr., TT, fld., 8 to 12 ins.	30.00	275.00
Juniper, Irish Fastigiata		
1-yr., pots, 4 to 6 ins.	20.00	180.00
Thuja, American		
3-yr., pots, 6 to 12 ins.	22.50	200.00
Thuja Elegantissima		
1-yr., pots, 4 to 6 ins.	18.00	160.00
Thuja Hetzi Winer Green		
2-yr., TT, fld., 6 to 8 ins.	30.00	275.00
Thuja Pyramidalis		
1-yr., pots, 4 to 6 ins.	16.00	150.00
2-yr., TT, fld., 6 to 8 ins.	27.50	250.00
3-yr., TT, fld., 12 to 18 ins.	40.00	350.00
Thuja, Siberian		
1-yr., pots, 4 to 6 ins.	16.00	150.00
Ilex Glabra		
1-yr., 3-in. pots	22.50	200.00
Ilex Rotundifolia		
1-yr., pots, 6 to 8 ins.	22.50	200.00
2-yr., TT, fld., 6 to 8 ins.	30.00	275.00

HEASLEY'S NURSERIES

Freeport Road

BUTLER, PA.

ers and may further complicate matters by demanding a moist acid soil. But then there are others like the showy, rose-colored *S. dodecandra*, which seems to be the name favored by botanists for the plant which Mr. Wheeler and I were taught to call chloroides, with a somewhat tolerant disposition. The type grows to 18 inches in height (it is said to reach two feet in its home in the marshes and ponds, which are sometimes brackish, along the Atlantic coast) and produces large (up to two inches or more across), pale rose, yellow-eyed flowers from July to September. Apparently all it needs is moisture, though it may demand slight acidity to make it permanent. Years ago I had a plant from Massachusetts under the label of *S. kennedyana* which was indistinguishable from the type as I had known it, except that the yellow eye may have been larger. I am happy to hear about variety *fernaldi* and look forward to seeing something really good.

Acleisanthe

Some 15 years ago, after growing a member of the four-o'clock family known to botanists as *Acleisanthe longiflora*, I wrote a glowing account of the experience, hoping that the enthusiasm would induce southern growers to search it out and offer it to their clients. I was surprised then (but not too much) to find, when I tried to locate a source of supply last summer, that it is still unknown to nurserymen. So I am repeating the note that I find in my garden book of 1940 with the hope again that some Texas reader will make it available for propagation. I say Texas reader because that is the only state known to me where it is found, though it may skip over into New Mexico and Oklahoma (I do not have good local floras of those two states), but Gates' "Flora of Kansas" does not mention it as occurring there.

The note: I wish I knew how far north a plant I had a few years ago (1934, I think) under label of *Acleisanthe longiflora* could be grown safely, for it is a most spectacular vine. As I remember it now it reminded me of a trailing datura even though it belongs to the four-o'clock family. It has the long-tubed (six inches or more) white flowers, delightful fragrance and long blooming habit of *Datura suaveolens* and apparently about the same degree of hardiness, according to experience. Neither is reliable here, though both will go through an ordinary winter under a heavy mulch. It is a plant of much promise



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BIRD PERENNIAL POTS

— the only heavy pot that can be imprinted

BIRD has just perfected such a pot—so you can now powerfully merchandise your own business. Your name, clearly imprinted in your choice of color, on *BIRD Perennial Pots* will build ever greater recognition and sales for you. You can have your name in white, yellow, green, or red on these heavy pots for a printing cost of \$10 per thousand.

BIRD Perennial Pots also give you tough construction at less cost.

Tough as, or tougher than pots made of heavier material—Bird Perennial Pots have a hard coating, inside and out, that adds to their durability and resistance to handling hazards.

Solid stapled bottom—Bird Perennial Pots are constructed with a solid stapled bottom which prevents

loss of plants in handling. This bottom is designed with openings to insure proper drainage.

Lower landed-cost—Most important, too, is the fact that if your nursery is in the area outlined above, the lower landed-cost to you of Bird Perennial Pots makes them by far the most economical and efficient perennial pot you can buy.

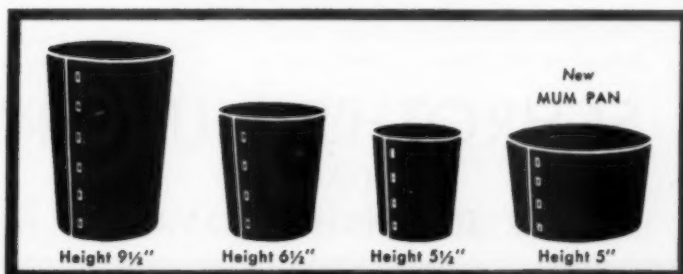
Longer selling season—Bird Perennial Pots lengthen your selling season, too, from three months to five months—plus giving you the opportunity to display your plants at the very peak of their bloom . . . a big merchandising advantage.

Ask your nearest distributor for detailed information and low delivered prices on this latest advance in nursery sales technique, or write us direct, Bird & Son, inc., Dept. ANP-5, East Walpole, Mass.

BIRD



VITA-BANDS • TOM THUMB FLATS
VITA-POTS • RED POTS



PENNSYLVANIA EVERGREEN SEEDLINGS

grown at high altitude, in the heart of the
ORIGINAL PENNSYLVANIA PINE FORESTS

Pine Seedlings

	Per 100	Per 1000
Scotch Pine (Riga), 3-0, 8 to 12 ins.....	\$ 5.00	\$30.00
2-0, 2 to 4 ins.....	2.50	15.00
2-0, 4 to 6 ins.....	3.50	25.00
American Red Pine, 2-0, 2 to 4 ins.....	3.00	18.00
3-0, 4 to 6 ins.....	4.00	25.00
3-0, 6 to 9 ins.....	5.00	30.00
4-0, 10 to 18 ins.....	6.00	40.00
Banks Pine, 2-0, 5 to 10 ins.....	2.50	15.00
Japanese Red Pine, 3-0, 8 to 16 ins.....	4.00	25.00
Austrian Pine, 2-0, 3 to 6 ins.....	4.00	30.00
Ponderosa Pine, 3-0, 8 to 14 ins.....	5.00	30.00
White Pine, 2-0, 3 to 5 ins.....	3.50	20.00
White Pine, 3-0, 5 to 10 ins.....	4.50	30.00
Mugho Pine (True Dwarf Tyrolean), 2-0, 2 to 4 ins.....	4.00	25.00

Spruce Seedlings

Norway Spruce, 2-0, 3 to 5 ins.....	3.00	18.00
2-0, 5 to 8 ins.....	4.00	25.00
3-0, 6 to 10 ins.....	5.00	30.00
4-0, 10 to 16 ins.....	6.00	50.00
Colorado Blue Spruce, 2-0, 2 to 4 ins.....	3.50	25.00
Colorado Blue Spruce, 3-0, 4 to 6 ins. Sold out.....		
Black Spruce, 2-0, 3 to 5 ins.....	3.00	20.00
Black Spruce, 2-0, 5 to 8 ins.....	4.00	30.00
White Spruce, 2-0, 2 to 4 ins.....	3.50	18.00
White Spruce, 2-0, 4 to 8 ins.....	4.50	30.00
Engelmann Spruce, 2-0, 3 to 6 ins.....	4.00	30.00
Engelmann Spruce, 3-0, 6 to 10 ins.....	5.00	40.00

Fir Seedlings

Douglas Fir, 2-0, 3 to 5 ins.....	3.50	25.00
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Larch Seedlings

Japanese Larch, 2-0, 5 to 10 ins.....	3.00	25.00
Japanese Larch, 3-0, 14 to 30 ins.....	5.00	35.00
European Larch, 2-0, 4 to 8 ins.....	3.00	25.00

Hemlock Seedlings

Hemlock (Canadian), 2-0, 3 to 6 ins.....	4.50	35.00
--	------	-------

Blight-Resistant Chestnut

Chestnut, 1-0, 10 to 16 ins. (30c each in 10 Lots).....	25.00
---	-------	------

Arborvitae

American Pyramidal Arborvitae, 2-0, 2 to 4 ins.....	3.00	20.00
---	------	-------

Transplant listing will be sent on request.

We have for this season Riga strain Scotch Pine seedlings, the best strain known for select and fastest-growing CHRISTMAS TREES.

It Pays to Plant the Best

Excellent Root Systems; Hardy. ORDER NOW!

Why not make a planting of Scotch this season? It will pay you large dividends.

All stock offered subject to prior sale; all seedlings or transplants subject to 5 per cent discount on 25,000 or more.

SCHROTH'S NURSERY

INDIANA, PA.

— SEEDLINGS OF QUALITY —

for sections where it can stand the winters. It comes readily from seeds, may be divided and no doubt could be grown from root cuttings, as is the case with many nyctaginaceae.

Alpine Lady's-Mantle

Alchemilla is a genus of 30 or more species; most of them are of Central and South America and therefore of no use to outdoor gardeners in the temperate zone. And few of the hardy kinds are really exciting plants. None has showy flowers, and, although all have pretty foliage, not more than two that I have grown commercially attracted the attention of customers to the point of buying. One of these, *Alchemilla alpina*, is a dear little thing, with 5 to 7-lobed leaves, silky above and silvery beneath, and a general appearance of delicacy which is not borne out by its behavior.

If alpine by nature, it must not grow high up the mountains because it does splendidly in any well-drained soil in sun or light shade and is especially lovely in small clusters along a path. Do not make the mistake (a natural one, I suppose, because of the specific name and its delicate appearance) of thinking that the plant has to be coddled in a choice spot in a rock garden, for it will make itself at home in borders or wild gardens.

I have had two or three times a tall, all-green plant under this name, which indicates that some confusion exists. The true plant may be told by its silky, silvery leaves, usually 7-lobed and rarely over six inches tall.

FLOODS SPARE BULB FARMS

The bulb fields of Holland were not damaged by the floods and storms which struck the Netherlands and England in recent weeks, according to reports received by Gustave Springer, American representative of the Associated Bulb Growers of Holland.

Mr. Springer, who was in constant touch with Holland since news of the flood and storm disasters first reached the United States, said that dikes had threatened to break in the bulb-growing areas on more than one occasion, but that emergency measures had prevented extensive damage.

"In view of the flood disaster, the bulb crop becomes of more value to the Dutch than ever before in restoring economic health to their nation," he declared, "and it is gratifying to learn that bulb exports to the United States and other countries will not be affected by these terrible events."

VERY SPECIAL NET PRICES IN QUANTITY LOTS



BIOTA BAKERI

(Baker Arborvitae)

Foliage a rich green; new growth tinged with yellow.

	Each	25	Load
3 1/2 to 4 ft.	\$3.25	\$2.40	\$2.00
4 to 4 1/2 ft.	3.75	3.00	2.50



THUJA OCCIDENTALIS PYRAMIDALIS

(Pyramidal Am. Arborvitae)

Bright green foliage.

	Each	25	Load
2 to 2 1/2 ft.	\$2.00	\$1.60	\$1.50
2 1/2 to 3 ft.	2.50	2.00	1.75
3 to 3 1/2 ft.	3.00	2.40	2.00
3 1/2 to 4 ft.	4.50	2.80	2.50

THUJA OCCIDENTALIS WOODWARDI

(Woodward Globe Arborvitae)



Slightly broader than the regular Globe; symmetrical.

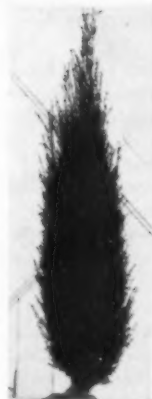
	Each	25	Load
15 to 18 ins.	\$1.75	\$1.40	\$1.25
18 to 21 ins.	2.00	1.60	1.35
21 to 24 ins.	2.50	2.00	1.50



PFITZER JUNIPER

The picture was taken with the plant on top of a box, lying on one side. You are seeing it as if you were looking directly into it while standing over it.

	Each	25	Load
2 1/2 to 3 -ft. spread	\$3.00	\$2.75	\$2.50
3 to 3 1/2 -ft. spread	3.75	3.50	3.00



JUNIPERUS COMPACTA HIBERNICA FASTIGIATA

The compact, narrow form of Irish Juniper.

	Each	25	Load
2 1/2 to 3 ft.	\$2.50	\$1.70	\$1.35
3 to 3 1/2 ft.	3.00	1.90	1.50

IRISH JUNIPER

	Each	25	Load
2 to 2 1/2 ft.	\$2.00	\$1.50	\$1.25
2 1/2 to 3 ft.	2.50	1.70	1.35
3 to 3 1/2 ft.	3.00	1.90	1.50



JUNIPERUS EXCELSA STRICTA

(Spiny Greek Juniper)
Bluish-green foliage.

	Each	25	Load
1 1/2 to 2 ft.	\$1.50	\$1.50	\$1.25
2 to 2 1/2 ft.	2.00	1.60	1.50
2 1/2 to 3 ft.	2.75	2.20	2.00

The 1 1/2 to 2 ft. is not spread so much as the larger plants.



CHAMAECYPARIS

(Retinospora)

Retinospora pisifera
Retinospora pisifera aurea
Retinospora plumosa
Retinospora plumosa aurea

	Each	25	Load
2 to 2 1/2 ft.	\$2.00	\$1.60	\$1.50
2 1/2 to 3 ft.	2.50	2.00	1.75
3 to 3 1/2 ft.	3.00	2.40	2.00

RETINOSPORA SQUARROSA VEITCHI



The picture is of the larger size; the smaller sizes are not quite as broad.

	Each	25	Load
2 to 2 1/2 ft.	\$2.50	\$2.00	\$1.90
2 1/2 to 3 ft.	2.75	2.40	2.25
3 to 3 1/2 ft.	3.00	2.75	2.50

The each rate applies when bought in less quantity than 25; when there are 25 of a kind and size, this rate applies when loaded on your truck here; if shipped, packing would be extra. The load rate applies only when there is a truck or car load of this class of material. It is all tiptop stock and should please the most exacting.

LINDLEY NURSERIES, INC. • Greensboro, N. C.

This Business of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

EDUCATING THE PUBLIC

That our industry is finding it necessary to police its newspaper and magazine advertising may be unfortunate for two reasons. It is obvious that the mistakes of a few can damage the reputations of the many who are honest and ethical. What is also unfortunate is that in correcting the situation we may "educate" the public in the wrong direction. In informing the public to beware of certain faults, we sometimes find that the public takes the facts given it as an absolute doctrine. The practice of horticulture is not an exact science, and many conditions vary the methods of handling plants. Garden magazine writers, speaking as with absolute authority, give readers false impressions.

I can cite a number of examples. Our firm is mostly a landscape nursery. In handling our plants from our nursery we invariably dig most of our plants, even deciduous shrubs, with a ball, and most customers expect it; they read that it is the best way to handle plants. But should we supply them with a 2-year apple tree or a shrub just shipped in, they will question the lack of a ball. In addition, some few plants, the common Judas tree for instance, are best dug without a ball, and some, like the pecan, cannot be dug with a ball.

Within the past year or so we have had customers come into the office with the statement that any nurseryman that sold budded lilacs, for instance, was the worst kind of crook, because they read that they should plant only own-root propagated plants. The controversy between own-root and grafted plants in the propagation of roses, lilacs, etc., is an old one, but whenever a misguided writer brings up the subject anew it is started all over again.

The same thing is true of the old controversy of seedling versus grafting. Of course, no one would advocate selling a seedling peach, but there are many plants where the hybridization has not been so intense and where seedling variation is not great. Some years ago we obtained some seeds of a flowering crab apple from the Morris Arboretum. There was some variation in the color of the flower and fruit in the progeny. The plants proved extremely popular

with our landscape trade, and I frankly think vegetative propagation would have been silly.

Recently I had a customer tell me that he knew the reason his dogwoods died was because we planted them with a modest amount of commercial fertilizer. Admittedly, we have trouble with the dogwood, but we have planted thousands on the nursery with fertilizer without losing them. The real reason was that the month of July had 20 days with an official temperature between 90 and 100 degrees Fahrenheit and no rain; this was not good for the thin leaves and heat-sensitive bark. Customers are apt to discount all other factors when they are in a mood to heap blame on the nurseryman.

Garden authorities will tell their readers never to plant hollies and Magnolia grandiflora except in the

spring. I would say this is good advice in all sections of the country where the ground freezes and stays frozen. In these circumstances drying winds persecute the plants. But we regularly and successfully move these plants in fall and winter. Our usual climate is a winter of freezes and thaws so that a mulched plant rarely has its foliage dried up by the winter winds. Because of the Christmas festivities we sell 75 per cent of our hollies in December.

Nurserymen, too, have a certain amount of rigidity in their thinking. A new fruit comes out and the nurseryman tries to put it in a certain category and handles it like other fruit trees. A pecan, for instance, would hardly benefit from nursery transplanting, and it is conceivable that other plants might behave in the same manner.

The very nature of plant life makes it easy for those with elastic consciences to be dishonest; yet at the same time reputable nurserymen, plantmen and writers should keep their minds elastic.

ROSA MULTIFLORA JAPONICA

Hardy northern-grown seedlings. Upright, thorny type for stock-tight living fences, conservation and understock. We select our seeds for trueness to type. The plants are excellently grown.

	Per 1000
1 to 2 mm., 8 to 12 ins. in height.....	\$10.00
2 to 3 mm., 12 to 15 ins. in height.....	15.00
3 to 4 mm., 15 to 18 ins. in height.....	18.00
4 to 6 mm., 18 to 24 ins. in height.....	35.00
6 to 8 mm., 24 to 30 ins. in height.....	45.00
8 to 12 mm., 30 to 36 ins. in height.....	55.00
Conservation grade, 12 to 20 inches in height.....	22.50

Will be shipped cut back to about 8 inches unless you state otherwise.

TERMS: Free packing when cash is sent with the order
C. O. D. shipments require 25% with order.

Sample for \$2.00.

BROOKVILLE NURSERIES

GLEN HEAD, N. Y.

QUALITY MERCHANDISE
AT REASONABLE PRICES

**VANDEBROOK
NURSERIES**

MANCHESTER, CONN.

Wholesale Nurserymen Since 1922



**PRINCETON
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A very complete line of
Quality Ornamental Stock.

Come to see us.

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Write for catalog.

PRINCETON NURSERIES

Ph. Princeton 1776 PRINCETON, N. J.

RA·PID·GRO

The Double Profit Plant Food



Rose on left was Ra-Pid-Gro fed.



This dispensing display sells Ra-Pid-Gro for you!

PROFIT NO. 1

USE IT!

Nurserymen who use Ra-Pid-Gro know well that it produces:

1. Healthier stock.
2. More saleable stock.
3. Far fewer replacements.
4. Properly timed blooms.

PROFIT NO. 2

SELL IT!

Nurserymen who sell Ra-Pid-Gro know well that it produces:

1. Satisfied customers.
2. Repeat business.
3. Greater sales volume.
4. Extra profit.

USE RA-PID-GRO — AND SELL IT FOR SATISFIED CUSTOMERS

Imitation is the Sincerest Flattery.

They say money is the root of all evil
and it is sometimes the reason for substitution

Stock up on Ra-Pid-Gro NOW!

ANALYSIS 23-21-17

RA·PID·GRO

CORP., DANVILLE, N. Y.

THE MIRACLE LIQUID PLANT FOOD

COVER ILLUSTRATION

Top Grading—Extra Count

ARBORVITAE

	Each
Berckmans, 15 to 18 ins.	\$1.00
18 to 24 ins.	1.50
24 to 30 ins.	2.00
30 to 36 ins.	2.50
36 to 42 ins.	2.75
42 to 48 ins.	3.00
4 to 5 ft.	3.50
Bonita (green and golden), 18 to 24 ins.	1.25
Bonita (green and golden), 24 to 30 ins.	1.50
Excelsa, 24 to 30 ins.	1.40
30 to 36 ins.	1.75
3 to 4 ft.	2.25
Bluespire and Baker, 2 to 3 ft.	1.20
3 to 4 ft.	1.75
4 to 5 ft.	2.10

Extra
count
on all
items—
5% extra
on Arbor-
vitae

CYPRESS

Arizona (grafted), 2 to 3 ft.	2.00
Arizona (grafted), 3 to 4 ft.	2.50
Italian, 3 to 4 ft.	1.60
Italian, 4 to 5 ft.	2.00

Top size
quoted
is size
shipped

JUNIPERS

Pfitzer, 5-gal., 15 to 18 ins.	1.65
15 to 18 ins.	1.65
18 to 24 ins.	2.25
24 to 30 ins.	2.75
(few), 30 to 36 ins.	3.00
Sylvestris, 24 to 30 ins.	1.50
Sylvestris, 30 to 36 ins.	1.85
Irish, 18 to 24 ins.	1.00
24 to 30 ins.	1.25
30 to 36 ins.	1.60
3 to 4 ft.	2.00
Spiny Greek, 18 to 24 ins.	1.00
24 to 30 ins.	1.25
30 to 36 ins.	1.60
3 to 4 ft.	2.00

Burlap
treated
for 4 to 6
months'
wear

GRAFTED JUNIPERS

Canaert, 36-in.	3.00
Cupressifolia, 48-in.	4.00
Cupressifolia, 60-in.	5.00
Hill's Dundee, 36-in.	3.00
Blue Columnar, 60-in.	5.00
Blue Columnar, 72-in.	6.00

All
burlap
pinned
and
corded

PRICES F.O.B. SCOTTSVILLE

Low railroad and
trucking rates.

Over 60,000 plants
to select from.

VERHALEN NURSERY

SCOTTSVILLE 12140 HARRY HINES BLVD.
TEXAS • DALLAS, TEXAS

Your Profits Grow in Verhalen Plants

Laburnum Watereri

One of the most beautiful small flowering trees is the Waterer laburnum, or golden chain, with its pleasing habit of growth, interesting bark, attractive foliage and beautiful flowers.

The Waterer laburnum is a relatively narrow, small tree when it is young but is somewhat broader, even round-headed, with age. It attains a height of about 25 feet at maturity.

Laburnum watereri is a hybrid between Laburnum anagyroides and L. alpinum, the Scotch golden chain, and originated sometime before 1864. The generic name, laburnum, is an ancient Latin name and the specific name, watereri, probably refers to Waterer, one of the famous nurserymen of Great Britain.

The bark of the young twigs is green, darkening as the branches become older. The leaves are 3-foliate, clover-like, and arranged alternately on the twigs. The leaflets are about 1½ to 2¾ inches in length and somewhat hairy, especially on the underside. They are dark green and exhibit no outstanding fall foliage color.

The outstanding characteristic of the plant is the attractive flowers. The flowers are pea-shaped, yellow and borne in pendulous clusters which may be 12 inches or more in length. The flowering period is late May to early June. The cover illustration shows a plant in flower. The fruit is a pod of about two inches in length and is of no ornamental value. Plants are hardy in most of Ohio or similar territory.

Laburnum watereri should be planted in good, well-drained soil and in somewhat protected situations. They will do well in full sun or partial shade. Transplanting should be with a ball of soil and little pruning is normally required. In some regions canker and dieback are so troublesome that the plants can hardly be recommended as satisfactory landscape material. Propagation is usually by grafting but softwood cuttings will root satisfactorily.

The Waterer laburnum will be of use mostly as a border plant, where it is effective against a background of evergreens, as specimens and as corner plants. Group plantings are often more effective than individual specimens.

L. C. C.

CHAMBERLAIN NURSERY was recently opened by Mrs. Robert E. Chamberlain at Superior, Ariz.



**New Electro-matic Water Miser
Control measures moisture in
lawns and turns system on—
if grass needs water!**

Now — as a dealer for Texas Lawn Sprinkler Company — you can offer your customers the most advanced equipment in the lawn sprinkler field!

And only Texas Lawn Sprinkler Company dealers can offer it, because this revolutionary new moisture control — the Electro-matic Water Miser — is the only control of its kind now being manufactured.

Think of it! A control that scientifically measures the moisture in the soil every 24 hours. It compensates for all factors that affect evaporation: heat, cold, rainfall, lack of rainfall, humidity, sunshine and wind. It's truly automatic. Set the control dials at the beginning of the Season, and forget it!

This new Water Miser Control is only one of many reasons why you should consider the profitable possibilities of one of several dealerships now open. For literature on the Water Miser, and details of available dealerships, call or write — today!

TEXAS LAWN SPRINKLER CO., INC.

5422 REDFIELD STREET

DALLAS, TEXAS

IT'S SAFE AND ECONOMICAL!

Good-rite N.I.X.

*REG. U. S. PAT. OFF.

water-soluble weed killer

GOOD-RITE N.I.X. provides safe, economical weed control in nursery and greenhouse operations. Supplied as a powder, it dissolves easily in water, kills soft, succulent weeds.

Good-rite N.I.X. destroys only that foliage it actually wets... has no hormone or residual action... no soil-poisoning effects.

Good-rite N.I.X. is most effective when used as a pre- and post-emergence spray on small weeds. Properly used, it can effect

economies wherever hand- or hoe-weeding is employed in nurseries and greenhouses.

For information about Good-rite N.I.X., contact your dealer. If he is unable to supply, write Dept. CD-2, B. F. Goodrich Chemical Company, Rose Building, Cleveland 15, Ohio. Cable address: Goodchemco. In Canada: Kitchener, Ont.

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EVERGREENS

NORTHERN-GROWN

Canadian Hemlock, American Arborvitae, Balsam Fir.

	Per 100	Per 1000
2 to 4 ins., sdgls.....	\$ 1.00	\$ 5.00
3 to 6 ins., sdgls.....	2.00	10.00
6 to 9 ins., sdgls.....	3.00	20.00
9 to 12 ins., sdgls.....	7.00	45.00
12 to 18 ins., sdgls.....	9.00	70.00
18 to 24 ins., sdgls.....	25.00	....

Freshly collected. Well-rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, etc., on request.

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HEMLOCK

Rhododendron — Kalmia
Azalea

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CALICOON, N. Y.

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Coming Events

MEETING CALENDAR

March 6 to 8, sixth annual spring garden show, Long Island Nurserymen's Association, Hicks Nurseries, Westbury, L. I., N. Y.

LONG ISLAND GARDEN SHOW

The sixth annual spring garden show, sponsored by the Long Island Nurserymen's Association, will be held on March 6 to 8 at Hicks Nurseries, Jericho turnpike, Westbury, L. I., N. Y. Admission to the show will be 75 cents and the proceeds will be given to the Nassau county chapter of the National Foundation for Infantile Paralysis. Members of the Long Island association will exhibit spring gardens and garden clubs from all over Long Island will enter competitive arrangements.

A limited amount of display space for the show remains and all requests should be addressed to Charles Mouquin, McCoun's Lane, Glen Head, N. Y. Space for commercial exhibitors costs \$1 per square foot; booths will be 10 feet in depth and any desired width.

CHERRY BLOSSOM FESTIVAL

The cherry blossom festival committee has set April 8 to 12 for Washington's annual springtime celebration, and it hopes the blossoms will wait. The date is a week later than usual because Easter comes early this year and the committee did not want to hold its show in Easter week.

Another cause for worry is the unusually warm weather that has had blossoms peeking out now and then for the last month or so.

Edward J. Kelly, superintendent of National Capital Parks, says it is better than a 50-50 chance that the Japanese cherry trees along the Tidal Basin will be in full bloom for the festival week-end. But, he says, if they bloom too early, "we'll take the hormone spray out and do everything we can to hold them."

DR. DAVID G. WILSON has been appointed to the staff of the biochemistry department of the Connecticut agricultural experiment station, New Haven, where his first project will be a study of isocitric acid in the leaves of succulent plants. Dr. Wilson recently received a doctor's degree in biochemistry and plant physiology from the University of Wisconsin, and previously studied at the University of Toronto, Canada.

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The lively sponginess that you can actually feel in REX proves it retains its usefulness longer in the ground.

Also, you get more peat in a bale of REX, because it's more tightly compressed. When opened, the peat springs out to give you greater quantity for your money!

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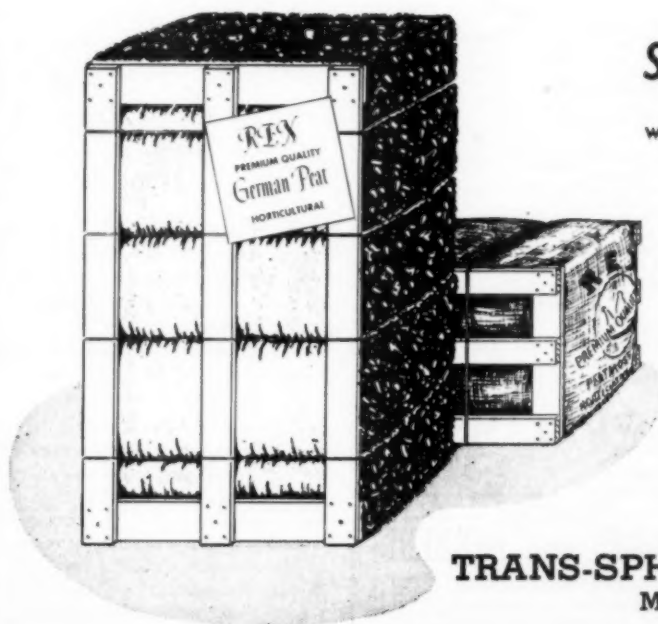
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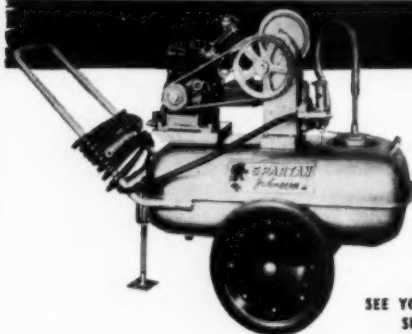
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PORTABLE POWER SPRAYERS

the *Spraymate*

Here's the handiest power sprayer on the market. Takes the hard work out of spraying — priced to fit your pocketbook. A 5-gallon tank gives you plenty of capacity and the dependable John Bean pump can deliver pressures up to 150 pounds. Measures only 18" x 18" x 38".



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Big brother to the Spraymate and offering greater tank capacity and pressure, the Spartan is ideal for the modern nurseryman. Makes it easy to protect shrubs and flowers from insect pests, blights and diseases. Gives you an economical way to control weeds, or make chemical feedings. Tank capacity—15 gallons; 3 gallons per minute at 10 to 250 pounds pressure.

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LANDSCAPE-SIZE SHRUBS

<i>Clethra alnifolia</i>	Per 10	Per 100
2 to 3 ft.	\$ 6.00	\$ 50.00
3 to 4 ft.	8.00	70.00
<i>Ilex verticillata</i>		
2 to 3 ft.	6.00	50.00
3 to 4 ft.	7.00	60.00
<i>Viburnum cassinoides</i>		
2 to 3 ft.	5.00	40.00
3 to 4 ft.	6.00	50.00
<i>Viburnum dentatum</i>		
2 to 3 ft.	4.50	35.00
3 to 4 ft.	6.00	50.00

CLUMP BIRCH

<i>Paper Birch</i>		
6 to 8 ft.,		
3 stems and up.	40.00	
<i>Gray Birch</i>		
4 to 6 ft., 3 to 6 stems	20.00	150.00
6 to 8 ft., 3 to 6 stems	35.00	250.00

PAPER BIRCH

<i>Betula papyrifera</i>		
2 to 3 ft.	\$ 8.00	\$ 70.00
3 to 4 ft.	25.00	200.00
4 to 6 ft.	40.00	300.00
6 to 8 ft.	100.00	

All stock is first-quality collected material except as otherwise noted. Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

LINING-OUT STOCK

<i>Clethra alnifolia</i>	Per 100	Per 1000
6 to 18 ins.	\$ 7.00	\$ 60.00
<i>Ilex verticillata</i>		
1 to 2 ft.	7.00	60.00
<i>Syringa vulgaris</i>		
1 to 2 ft.	7.00	60.00
<i>Viburnum acerifolium</i>		
6 to 18 ins.	8.00	70.00
<i>Viburnum cassinoides</i>		
1 to 2 ft.	8.00	70.00
<i>Viburnum dentatum</i>		
1 to 2 ft.	8.00	70.00

EVERGREEN TRANSPLANTS

<i>Abies balsamea</i>		
4 to 8 ins., trans., 2-2	12.00	100.00
<i>Thuja occidentalis</i>		
18 to 24 ins.,		
trans., 2-3	40.00	
<i>Tsuga canadensis</i>		
4 to 8 ins., trans., 2-1	15.00	120.00

EVERGREEN SEEDLINGS

Collected		
<i>Tsuga canadensis</i>		
4 to 8 ins.	4.00	20.00
8 to 12 ins.	6.00	50.00

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Upright, 3 to 14 ft.
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BABYLON, L. I., N. Y.

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Splendid Stock

Write for Special Quotations

LESTER C. LOVETT

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DELAWARE

OBITUARY

A. Ellis Hanson

A. Ellis Hanson, founder of the Mentor Nurseries, Mentor, O., died February 5 at Cleveland, O.

Born in Sweden, Mr. Hanson was a graduate of the universities of Berlin and Vienna and, after emigrating to the United States, the Harvard University school of landscape architecture. Before coming to this country Mr. Hanson had been a landscape architect in the employ of the former Emperor Franz Joseph of the Austrian-Hungarian empire. Also, he had been largely responsible for the creation of the famed gardens of the Rothschild estate at Vienna.

After coming to the United States he moved, in 1922, to Cleveland, O. He married Miss Mary Normand Fort in 1926.

He is survived by his widow; two sons, Jack R. and William E., and a daughter, Mrs. Beverly Hopps, of New York.

Dr. William E. Blauvelt

Dr. William E. Blauvelt, 49, nationally known entomologist and professor in the department of horticulture, Cornell University, Ithaca, N. Y., was fatally stricken with virus pneumonia, dying at his home February 2.

Dr. Blauvelt earned his doctorate at Cornell University in 1926, later did further graduate study at the university, and served as professor of entomology there for several years.

Later, he became New York state's first entomologist for the florists' and nursery industries. Noted for his work on insecticides, in 1949 he won an award of the Society of American Florists for his work on Parathion.

Dr. Blauvelt served as secretary of the American Association of Economic Entomologists and was a member of the Entomological Society of America.

Survivors are his widow, Helen; a son, Andrew, and two sisters.

T. G. OWEN & SON, nursery and retail store at Columbus, Miss., were recently awarded a silver medal and a gold medal by Display World magazine for two of the retail store's window displays which were entered in the magazine's 1952 international display contest. The Owen firm also took a first and second award for the magazine's 1952 window display contest for art and flowers.

QUARANTINE WARNING

Because of certain events the United States Department of Agriculture's bureau of entomology and plant quarantine has evidently decided to enforce strictly its regulation relating to sand, soil and earth. From a lax enforcement, the pendulum swung in the opposite direction recently. Plants received at Hoboken, N. J., were held up if any sand, soil or earth was found on the roots. More strict enforcement of the present regulation is what the American Association of Nurserymen and others have been requesting for some time.

Delays in clearing shipments of nursery stock from abroad can be expected at Hoboken, and in some cases it can be anticipated that clearance will not be granted. In such instances the American nurseryman has two choices—to clean the soil, sand and earth from the roots by washing satisfactory to the inspector, or to notify the shipper that the shipment has been rejected. Cleaning costs should, of course, be charged against the shipper.

POSTAL INCREASE SOUGHT

Postmaster General Arthur E. Summerfield has formally adopted the proceeding started by his predecessor for a new 35 per cent increase in parcel-post rates.

Former Postmaster General Jesse M. Donaldson petitioned the interstate commerce commission for such an increase a few days before leaving office. He asserted that the increase was necessary to cover a current deficit in parcel-post operations, and noted that an act of Congress required him to ask for an advance in postal rates under these circumstances.

Sen. Frank Carlson (R., Kan.), chairman of the Senate post office committee, and Sen. Olin D. Johnston (D., S. C.), have introduced a bill to take away from the ICC the power to fix parcel-post rates and place that authority solely with Congress.

A. L. TEAL, of Ilgenfritz Nurseries, Monroe, Mich., was the guest speaker at a recent meeting of the Ypsilanti (Mich.) Garden Club. The title of his address was "Evergreens and Their Care."

LANES END NURSERY, Cuba, Mo., has opened a retail nursery stock and garden supply store at Cuba.



JUNIPERUS SAB. TAMARISCIF.

**MN's
POT-GROWN
CONIFERS**

are ready for growing-on!
a few all-time favorites from our wide selection:

Juniperus chin. pfitzeriana
Juniperus sab. tamariscifolia
Thuja occid. pyramidalis
Thuja orient. aurea nana
Thuja orient. Blue Cone

3" pots 35c
and many others 25c - 45c



The Roots are the Reason

MN Conifers take hold so fast and grow so vigorously, either in the field or in containers, because their **roots are right!** Pot-grown almost from the very start, they develop a compact fibrous root system, strong and healthy, which comes to you in the **original earth** ready to set out with no shock to the plant. You'll be delighted at the condition these fine plants arrive in . . . with the ease of handling the lightweight but sturdy Pak-Saf containers . . . and with the low shipping costs!

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• MONROVIA, CALIFORNIA

Keeping West Virginia Green

By F. Waldo Craig

The discussion at both the business meeting and the educational session of the winter meeting of the West Virginia Nurserymen's Association could appropriately be entitled, "Keep West Virginia Green." This meeting was held on February 5 and 6 at the Waldo hotel, Clarksburg.

The principal business discussed concerned a report of the committee appointed to study the means of forwarding the "Plant America" movement in West Virginia, and the topic discussed by the guest speakers concerned the application of water and the retention of water by the soil. These ideas, the use of plants and the favorable growth of plants produced by a more adequate supply of water, add up to a greener West Virginia.

Mr. Dieckmann Reports

The association's committee, with Hans Dieckmann, of John Dieckmann & Sons, Elm Grove, chairman, reporting, had made a study of the other organizations of the state interested in the conservation of the state's vegetation; had accumulated literature on the national organization of "Plant America" and had considered several proposals on possible projects for the nurserymen's association. In the discussion of the report, members pointed out projects under way in their communities for the planting of such places as parks, schools, city entrances, etc. Some speakers listed a few of the embarrassing features they had encountered in cooperating in civic programs and suggested that members guard against repeating such errors. Means of securing financial assistance from civic groups were also discussed.

In his report, Mr. Dieckmann commented on the work of an organization known as the West Virginia Forest Council to Keep West Virginia Green. This included publicity campaigns to secure cooperation of the public in preventing forest fires and in buying tracts of land to set aside as tree farms. He then told of a new movement called "Operations Green Thumb," originated by Leon Estes, Nitro, W. Va., and approved by the West Virginia Forest Council. This operation seeks to organize youth groups, such as Boy Scouts or Future Farmers of America, into work groups for planting trees, cleaning up woodlands or other

forest improvement under supervision of foresters, conservationists, etc. "Operations Green Thumb," using Boy Scouts, planted 6,000 trees last spring and are planning to set 40,000 this spring. Boy Scouts from Fayette county are setting this last group of trees on national forest land.

Pamphlets, reports, forms and other helpful literature available from the public information service of the American Association of Nurserymen were shown to the group during Mr. Dieckmann's report. The above report included information about what other communities had accomplished, suggestions for organizing the planting of such public properties as churches and schools, the committee's opinion about the organization of community projects and a list of the benefits to be derived by the community from such activities.

No action was taken on the committee report and President E. L. Zimmerman, Jr., Lavalette Landscape Nursery, Huntington, asked the committee to continue its studies and to report again at the coming summer meeting.

Purchasing an Irrigation System

Eric B. Beckeman, Beckeman Engineering Sales, Pittsburgh, Pa., spoke to the group and outlined the factors to be considered in purchasing an irrigation system; pointed out the variation in every system installed, and gave examples of increased growth obtained by nurserymen and farmers through irrigation.

Mr. Beckeman stated that centrifugal pumps are the most efficient type of pump, showed how larger pipes reduced the work load by overcoming the friction in the pipe and showed the great work load created by lifting the water.

In his talk, the speaker quoted the benefits derived from the irrigation system installed the past season by Conner & Amos, Inc., Charleston, members of the nurserymen's asso-

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If you are interested in Top-Quality Yews for your better landscape jobs, we can furnish some beautiful heavy **Taxus Capitata** in sizes 3½ to 4 ft. to 5½ to 6 ft. Heavy, full plants, several times transplanted. Call at the nursery and inspect this stock. You are always welcome.

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Azaleas

Perennials, Roses

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AZALEA MOLLIS

(Chinese Azalea grown from seeds.)

Very hardy. Blooms before leafing. Foliage bright green and attractive, turning to gorgeous shades of bronze and red in the fall. Flowers are large and borne in great profusion. Varied colors.

We offer 15,000 2-year, once-transplanted, well-rooted plants in cold frames for spring delivery.

\$18.00 per 100; \$160.00 per 1000.

Cash with order. Free packing.

BROOKFIELD GARDENS

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ciation. He showed pictures of the increase in size of plants in blocks that had been irrigated against blocks that could not be irrigated and the uniform stands secured in the beds where rooted cuttings had been lined out. A 75 per cent improvement in stand over former years had been obtained.

Atlee Conner, of Conner & Amos, Inc., was present and spoke briefly on the benefits they had derived from their irrigation system. He urged all members to irrigate their nursery stock.

The next speaker, Robert Thornton, zone conservationist, Upper Darby, Pa., analyzed the action of the soil that determines its water-holding capacity, its ability to absorb water, and also explained the fundamental principles of irrigation. This speaker demonstrated the need for irrigation by quoting the number of dry periods recorded in West Virginia during recent years. He also stressed the need for applying enough water to fill the soil and strongly condemned the practice of "surface sprinkling" or "humid air irrigation," as he termed the usual irrigation practices of small property owners.

Start Irrigation Early

Irrigation should be started, Mr. Thornton pointed out, in time to cover the entire area under irrigation before any growth retardation due to lack of proper moisture can take place and to check the water penetration 24 hours after it has been applied to see if more is needed to fill the soil completely. He also cautioned against too rapid a rate of application and stated that irrigation could harm the soil and plants by puddling the soil and driving out the air.

This speaker also spoke briefly on the reclamation of soil banks from strip mining or any extensive excavation. He divided such areas into three classes, areas with a low pH and high pyrite content, areas with a heavy overburden of sandstones and areas composed of calcareous shales. The areas here in Harrison county, West Virginia, are mostly in this last class, Mr. Thornton told the group. He recommended a planting of forest trees, 50 per cent black locust, for the areas mostly sandstone, and stated that lespedeza, sand cherry and multiflora rose were doing all right in the calcareous shales.

Mr. Thornton was introduced to the group by L. L. Lough, state conservationist, Morgantown, and both speakers invited all the members to utilize the personnel in the district

HEAVY FIELD-GROWN LINERS



2-yr. *Viburnum opulus*



3-yr. Irish Juniper



3-yr. *Juniperus glauca hetzi*

Grown in field two and three years without shade.

Note the heavy root systems to balance vigorous growth.

Transplants—Grown in open field beds

	100 rate each
<i>Azalea Ghent</i> hyb., 1-yr. beds, X....	\$0.18
3 to 6 ins., 2-yr., field beds, XX....	.25
6 to 8 ins., 4-yr., heavy, XXX....	.45
<i>Azalea mollis</i> , 1-yr., X.....	.18
4 to 8 ins., 2-yr., X.....	.25
8 to 12 ins., 3-yr., XX.....	.65
12 to 16 ins., 4-yr., XXX (budded)....	1.35
<i>Azalea schlippenbachii</i> , 1-yr. beds, X....	.22
4 to 6 ins., field beds, XX.....	.35
<i>Calycanthus floridus</i> , 12 to 18 ins., 2-yr.....	.10
18 to 24 ins., 3-yr.....	.15
<i>Chamaecyparis lawsoniana allomi</i> (blue), XX, 2-yr., 6 to 10 ins.....	.25
10 to 15 ins., XX, 3-yr.....	.35
<i>Chamaecyparis plumosa aurea</i> , 5 to 8 ins., 2-yr., X.....	.35
8 to 12 ins., 3-yr., XX.....	.45
<i>Cotoneaster horizontalis</i> , 6 to 12 ins., 2-yr., X.....	.35
<i>Euonymus carrierei</i> (hedge type), 4 to 8 ins., X, 1-yr.....	.18
8 to 10 ins., 2-yr., X.....	.25
10 to 12 ins., 3-yr., XX.....	.35
<i>Euonymus coloratus</i> , 4 to 8 ins., X, 1-yr.....	.16
8 to 12 ins., XX, 2-yr.....	.25
<i>Euonymus fortunei erecta</i> , 4 to 8 ins., 1-yr., X.....	.16
6 to 12 ins., 2-yr., X.....	.25
12 to 18 ins., 3-yr., X.....	.35
<i>Euonymus vegetus</i> , 6 to 8 ins., X, 1-yr., bedded.....	.16
8 to 10 ins., X, 2-yr., field.....	.25
<i>Ilex glabra</i> (inkberry), 4 to 6 ins., 2-yr., X.....	.20
6 to 8 ins., 2-yr., X.....	.30
8 to 12 ins., 3-yr., XX.....	.40
<i>Juniper, Irish</i> , 8 to 12 ins., X, 3-yr.....	.35
12 to 15 ins., 3-yr., X.....	.45
<i>Juniperus glauca hetzi</i> , 10 to 15 ins., X, 2-yr.....	.35
12 to 18 ins., XX, 3-yr. (cutback)....	.55
<i>Juniperus pfitzeriana</i> (Blue compact; Nelson variety), 4 to 6 ins., X, 2-yr.....	.30
6 to 8 ins., X, 2-yr.....	.40
<i>Juniperus scopulorum</i> , 6 to 10 ins., 2-yr., X.....	.15
10 to 15 ins., X, 3-yr.....	.25

	100 rate each
<i>Koeleruteria paniculata</i> (Golden rain Tree), 1-yr., adlg.....	\$0.06
4 to 8 ins., 2-yr., adlg.....	.10
6 to 12 ins., 3-yr., field transp.....	.15
<i>Laburnum vulgare</i> (Golden Chain Tree), 6 to 10 ins., 2-yr.....	.10
10 to 18 ins., 3-yr.....	.18
<i>Larix europaea</i> , 6 to 12 ins., 2-yr.....	.10
<i>Larix leptolepis</i> , 6 to 12 ins., 2-yr.....	.10
<i>Pachysandra terminalis</i> , 2-yr.....	.12
<i>Picea excelsa</i> , 6 to 8 ins., 3-yr., X....	.10
8 to 12 ins., 3-yr., X.....	.15
<i>Picea pungens glauca</i> , 3 to 5 ins., 2-yr.....	.10
4 to 8 ins., X, 3-yr.....	.15
<i>Pinus mugo</i> , 4 to 6 ins., 3-yr.....	.10
6 to 8 ins., 4-yr., X.....	.15
<i>Pyracantha lalandi</i> (Fire Thorn), 4 to 8 ins., X, 2-yr.....	.20
8 to 12 ins., X, field, 2-yr.....	.30
<i>Rhododendron catawbiense</i> , 2-yr., beds, X.....	.25
3-yr., field beds, XX.....	.35
5 to 8 ins., 4-yr., XX.....	.55
<i>Rhus cotinus</i> (Smoke Tree), 4 to 8 ins., 2-yr., S.....	.06
<i>Thuja occidentalis</i> (American Arborvitae), 3 to 10 ins., 3-yr., X....	.15
10 to 12 ins., 3-yr., X.....	.25
12 to 18 ins., 4-yr., XX.....	.35
<i>Thuja occidentalis douglasii aurea</i> , 4 to 8 ins., X, 2-yr.....	.25
8 to 12 ins., X, 3-yr.....	.35
<i>Thuja occidentalis elegantissima</i> lutea (George Peabody Arborvitae), 6 to 8 ins., X, 3-yr.....	.32
<i>Thuja occidentalis globosa</i> , 8 to 12 ins., 3-yr., X.....	.35
<i>Thuja occidentalis pyramidalis</i> , 8 to 10 ins., X, 2-yr.....	.35
10 to 15 ins., X, 3-yr.....	.45
<i>Viburnum opulus</i> , 6 to 12 ins., 2-yr....	.08
(300 and up, 66 each)	
10 to 15 ins., 3-yr., X.....	.12
15 to 20 ins., 3-yr., X.....	.18
<i>Viburnum opulus nana</i> , 2-yr., field, X.....	.25

Order 25 a kind at the 100 rate.
Cash with order, and free pack-
ing. Otherwise 1/3 deposit and
balance C.O.D., railway express.

Send for our 1953 Spring Price List to cover our complete stock.

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(31 mi. north of Pittsburgh, Pa., on Rt. 19) Phone: Zelienople 476-J21 or Zelienople 644 (evenings)

J & P

EVERGREENS
SHADE TREES

SHRUBS, VINES
HEDGE PLANTS, etc.

In good assortment.

Jackson & Perkins Co.
NEWARK,
NEW YORK STATE

LINING-OUT STOCK

Two-year grafts in:

- Lilacs in choice varieties (true to name)
- Purple Beech, Rivers
- Red Japanese Maple (sold out)
- Wistaria Chinensis (blue)
- Wistaria Rosea (pink)

One-year grafts in:

- Cotoneaster Multiflora (true)
- Koster Blue Spruce (sold out)
- Lilacs in choice varieties (true to name)
- Viburnum Carlesii

Two-year transplants in:

- Cotoneaster Divaricata
- Euonymus Vegetus (sold out)
- Ilex Convexa (cuttings)
- Taxus Brevifolia
- Taxus Cuspidata (spreading) (sold out)
- Taxus Hatfieldi

One-year transplants in:

- Forsythia Spring Glory (new)
- Juniperus Glauca Hetzi
- Magnolia Soulangeana (grown from cuttings)
- Regel's Privet (genuine) (sold out)

SALABLE STOCK

DDT-treated to be shipped outside Beetle Area.

Taxus Cuspidata (spreading)
18 to 24 ins.

Taxus Hatfieldi
18 to 24 ins.

Ask for complete list on LINERS and FINISHED STOCK. Your inspection is cordially invited at any time.

C. HOOGENDOORN

Turner Rd. NEWPORT, R. I.

soil conservation office of the state in solving their soil and water problems.

The program of this meeting was not exclusively devoted to the subject discussed above. There were displays of plant materials and nursery management items arranged in the meeting room, and some time was devoted to a discussion of these exhibits at the evening meeting. Cole Nurseries, Bluefield, displayed 2 and 3-year-old hybrid rhododendrons of domestic and European origin. Lavalette Landscape Nursery; Conner & Amos, Inc., and John Dieckmann & Sons displayed samples of plant materials considered new, especially noteworthy or as illustrating some interest either in their use or in their propagation. Sandy Valley Nursery, Fort Gay, exhibited dogwood seedlings and budded pink dogwood. Conner & Amos, Inc., displayed two types of Howard cultivators and Menno S. Mennes Nurseries, North Tonawanda, N. Y., displayed the tar paper pots which they manufacture. William A. Watson, barberry eradication, United States Department of Agriculture, operated a continuous motion slide machine which reported on the efforts of his office to control black stem rust of small grains by eradication of susceptible types of barberry, and Carlton B. Lees, instructor of ornamental horticulture at West Virginia University, displayed models made by students in his class of property design. These designs developed an area for modern living, following the generally accepted principles of the day.

New Trends in Home Design

Professor Lees, in his comments on the landscape designs, stated, "The change in the concepts of our living needs shifts the emphasis to indoor-outdoor living areas. With the newer developments in house design, it is possible to develop an indoor and outdoor living area as a unit, often separated by mere glass. It thus becomes possible to extend our living space into the outdoors to experience the contact with plants, the soil and the sun from which our vitality arises." The speaker then concluded by pointing out how such house designs will demand certain kinds of plantings rather than for the plantings to be optional, as in the past.

Further business transacted included the selection of Huntington as the convention city for the 1953 summer meeting and a decision to include surplus lists of plant materials in the issue of Nursery Views preceding each meeting. A resolution was

AMERICAN NURSERYMAN

DEUTZIA GRACILIS

None of the Deutzias are more attractive than this old-fashioned shrub. It bears quantities of the most beautiful panicles of pure white flowers, very dwarf, with good foliage.

2-yr., 6 to 10 ins., \$7.50 per 100.

EUONYMUS YEDOENSIS

Pink fruits with red hearts. Large pink flowers in fall.

6 to 8 ins. \$3.00 per 100
8 to 12 ins. 5.00 per 100

LONICERA

Maximowiczii Sachalinensis

Red foliage in spring; purplish-red flowers in May. Red berries. An interesting, rare shrub. Very hardy.

\$7.50 per 100.

PHOTINIA VILLOSA

(Christmas Berry)

Hawthorn-like flowers followed by large, bright red berries. Foliage attractive; turns orange-red in fall.

8 to 12 ins. \$10.00 per 100

SYMPLOCOS PANICULATA

Well-shaped, artistic-looking shrub. Clean foliage. Fragrant white flowers, followed by masses of Wedgwood-blue berries.

6 to 8 ins., T. \$10.00 per 100

Send for list of interesting plants.

ALANWOLD NURSERY

NESHAMINY, Bucks Co., PA.

THUJA OCCIDENTALIS COMPACTA ERECTA

(NEW)

We offer this new variety in rooted cuttings; also established stock from 2 1/4-in. pots. Write for descriptive folder in color.

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WESTMINSTER, MD.

QUALITY LINERS

French Hybrid Lilacs	Per 100
(fine variety)	
6 to 12 ins., grafts	\$27.50
Viburnum Carlesii	
4 to 8 ins., trans.	35.00
Red-Flowering Dogwood	
6 to 10 ins., grafts	75.00

Send for new Spring List.

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6327 Magnolia St.
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LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

DEERFIELD NURSERIES

DEERFIELD STREET P. O., N. J.

adopted requesting the state legislature to retain the merit system for the personnel of the conservation commission, and the secretary was instructed to place copies of the request in the hands of legislators most interested in this legislation. The final meeting was a luncheon at the Waldo hotel.

A. A. N. SEEKS PHOTOS

Because of the extreme scarcity of excellent landscaping photographs the American Association of Nurserymen has offered to pay \$10 to any person, whether an association member or not, submitting an acceptable black and white glossy photograph showing landscape treatment of home grounds. In addition, a few exceptional color photographs are desired and these will be paid for when accepted and used in magazine stories on planting. Rate for color photographs will be \$25 each. For the loan of small Kodachrome slides from which a color print may be made, the sum of \$5 will be paid for all slides accepted. The slides will be returned.

The A. A. N. wants clear photographs of foundation plantings, hedges, screening, gardens, backyard treatments, flowering trees or coniferous evergreens in the proper setting, functional border plantings, such as roses along a wall or drive, daylilies, etc. Photographs showing the use of vines, windbreaks, home fruit gardens, etc., may be submitted. Before and after pictures of foundation plantings are especially desired.

The photographs must be accompanied by a blanket statement stating that all photographs are the property solely of the person sending them and the rights are released to the A. A. N. for reprinting and publication. This statement should be signed by the person sending them, and include his address.

Black and white photographs preferably should be 8x10 inches, on glossy paper; color photographs preferably 4x5 inches. Pictures of smaller size, but clear and sharp, may be acceptable.

On the reverse side of each picture (written lightly so as not to mar the print) should be a key to the names of the plants shown on the picture, reading from left to right. Location of the city where the picture was taken also should be given. All photographs not accepted will be returned to the sender. Photographs should be sent to the American Association of Nurserymen, 635 Southern building, Washington 5, D. C.

GRAFTED STOCK For Spring, 1953, Delivery

	Per 10	Per 100
<i>Acer palmatum atropurpureum</i>	\$7.50	\$65.00
<i>Acer palmatum dissectum atropurpureum</i>	7.50	65.00
<i>Cornus florida alba plena</i>	6.00	50.00
<i>Cornus florida rubra</i>	6.00	50.00
<i>Juniperus chinensis columnaris glauca</i>	6.00	50.00
<i>Juniperus chinensis columnaris viridis</i>	6.00	50.00
<i>Juniperus chinensis keteleeri</i>	6.00	50.00
<i>Juniperus chinensis neaboriensis</i>	6.00	50.00
<i>Juniperus chinensis sargentii</i>	6.00	50.00
<i>Juniperus chinensis sargentii glauca</i>	6.00	50.00
<i>Juniperus sabina Vonehron</i>	6.00	50.00
<i>Juniperus squamata meyeri</i>	6.00	50.00
<i>Juniperus virginiana burki</i>	6.00	50.00
<i>Juniperus virginiana canaerti</i>	6.00	50.00
<i>Juniperus virginiana elegantissima</i>	6.00	50.00
<i>Juniperus virginiana glauca</i>	6.00	50.00
<i>Juniperus virginiana kosteriana</i>	6.00	50.00
<i>Juniperus virginiana pyramidiformis hillii</i>	6.00	50.00
<i>Juniperus virginiana schottii</i>	6.00	50.00
<i>Magnolia lennei</i>	7.50	65.00
<i>Magnolia rustica rubra</i>	7.50	65.00
<i>Magnolia soulangeana</i>	7.00	60.00
<i>Magnolia soulangeana nigra</i>	7.00	60.00
<i>Magnolia stellata</i>	7.00	60.00
<i>Magnolia stellata rubra</i>	7.50	65.00
<i>Thuja occidentalis douglasii spiralis</i>	5.00	40.00
<i>Thuja occidentalis elegantissima</i>	5.00	40.00
<i>Thuja occidentalis lutea George Peabody</i>	5.00	40.00
<i>Thuja occidentalis lutea Mary Corey</i>	5.00	40.00
<i>Thuja occidentalis nigra</i>	5.00	40.00
<i>Thuja occidentalis pyramidalis</i>	5.00	40.00
<i>Thuja occidentalis rosensthalii</i>	5.00	40.00
<i>Thuja occidentalis wareana (sibirica)</i>	5.00	40.00

Prices are F.O.B. Mountain View, N. J.; packing additional, at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25 per cent of amount is sent with order. All this material is listed subject to prior sale and crop conditions.

HESS' NURSERIES MOUNTAIN VIEW, N. J.

GUARANTEED-TO-LIVE TRANSPLANTED EVERGREENS

	Per 1000
American Arborvitae, 4-yr. transplants, (2-2), 4 to 8 in.....	\$55.00
American Arborvitae, 5-yr. transplants, (2-3), 8 to 15 in.....	65.00
Austrian Pine, 4-yr. transplants, (2-2), 5 to 10 in.....	60.00
Banks Pine, 3-yr. transplants, (2-1), 5 to 10 in.....	35.00
Banks Pine, 4-yr. transplants, (2-2), 12 to 20 in.....	40.00
Japanese Black Pine, 3-yr. transplants, (2-1), 3 to 6 in.....	40.00
Mugho Pine, 4-yr. transplants, (2-2), 3 to 6 in.....	50.00
Norway (Red) Pine, 3-yr. transplants, (2-1), 3 to 5 in.....	50.00
Norway (Red) Pine, 4-yr. transplants, (2-2), 5 to 8 in.....	60.00
Scotch Pine, 3-yr. transplants, (2-1), 3 to 8 in.....	55.00
White Pine, 3-yr. transplants, (2-1), 3 to 5 in.....	45.00
Norway Spruce, 3-yr. transplants, (2-1), 2 to 5 in.....	50.00
White Spruce, 3-yr. transplants, (2-1), 2 to 5 in.....	45.00

TERMS

Cash with order; or one-half cash with order, balance C.O.D. All prices F.O.B. Fryeburg, Maine, net; no discounts. 250 trees of any one kind and size at the 1000 rate. For less than 250 of one kind, ask for retail price list. No extra charge for boxes or packing.

OUR GUARANTEE

90 per cent of all transplants sold at regular wholesale prices, as quoted in this list, are guaranteed to live. Replacements will be made free of charge for any losses in excess of 10 per cent of the number purchased, provided we are notified of such losses by October 1, 1953.

We believe that we grow and ship more transplanted evergreen trees than any other privately owned nursery in the country. Several other varieties of transplants and seedlings available. Send for complete list of stock.



WESTERN MAINE FOREST NURSERY CO.

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HOLLY LINERS

Ilex Opaca (Females)

Fine foliage, heavy-fruiting strains, guaranteed true to name.
Clark, Farage, Griscon, Manig, Mae, Osa, Goldie (yellow berries).
 \$8.00 per 10, \$75.00 per 100, \$700.00 per 1000.

Ilex Opaca (Males)

New Jersey Selections

\$7.00 per 10 plants, \$65.00 per 100 plants, \$600.00 per 1000.
 These New Jersey selections are entirely winter hardy here and have proved hardy for several winters in Buffalo, N. Y. Plants 6 to 10 ins. high, root-bound in 3-in. pots or beer cans. 25 plants at 100 rate. Try several varieties and see which is best for your location.

Other Liners

Taxus Cuspidata, \$6.00 per 10, \$50.00 per 100, \$450.00 per 1000.
Taxus Cuspidata Capitata, \$6.00 per 10, \$50.00 per 100.
Taxus Media Hicksi, \$6.00 per 10, \$50.00 per 100.
Taxus Brevifolia, \$6.00 per 10, \$50.00 per 100.
Ilex Crenata Bullata, \$6.00 per 10, \$55.00 per 100, \$500.00 per 1000.
Franklinia Alatomaha, from cuttings, 5 to 8 ins. high, \$2.50 per 10, \$20.00 per 100.
Calluna Vulgaris Cuprea and **Alba**, \$1.00 for 4 plants.

Blueberries—Large range of varieties and sizes.

HOLLY HAVEN, Inc.

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TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

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Trees, Evergreens, Shrubs Fruit Trees

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EVERGREENS

Banks Pine, transplants, 4-yr., 2-2, 18 to 26 ins., \$10.00 per 100; \$70.00 per 1000.
Scotch Pine, seedlings, 3-yr., 12 to 15 ins., 100% branched, \$10.00 per 100; \$70.00 per 1000.

Cash with order. Shipped express collect.

STRICK & ALLYN CO.
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We never talk about the other fellow's low prices; he knows what his merchandise is worth. We grow good evergreen liners. Ask for our wholesale list.

The STEDMAN NURSERIES
 NEWFANE, N. Y.

Kalamazoo Meeting

By Fred Mc Linden

The first attempt by the Kalamazoo Valley Landscape and Nursery Association to bring together the nurserymen and landscape men from southwestern Michigan at the group's regional education meeting, held February 3 at Kalamazoo's Hotel Harris, met with success as the attendance of 70 persons would indicate. The association is only 2 years old, but already has acquired a membership of 40, regular and associate.

Speakers for the afternoon and evening meeting included four faculty members from Michigan State College, East Lansing: Prof. Harold Davidson, horticulture department; Prof. Carter Harrison, farm crops specialist; Edward Andrews, specialist in plant pathology, and Prof. Walter Morofsky, entomology department. In the evening C. E. Morris, formerly of Michigan State College and now landscape architect with the Grand Rapids department of parks, addressed the group.

Visitors from the surrounding area included Ernest Durrant, Durrant Nurseries, Grand Rapids; Art Watson, Arthur L. Watson Nurseries, Grand Rapids; Harold Hunziker, M. J. Hunziker & Sons, Niles; Harold Hicks, Cottage Gardens, Lansing, and John Emerson, Emerson Nursery, Lansing.

The program for the meeting was under the direction of President Chris Patterer, Urbandale Floral Shop, Battle Creek.

The meeting was called to order at 1:30 p. m. with the introduction by President Patterer of Prof. Carter Harrison, whose subject was lawn seed and lawn building. Professor Harrison contended that only two lawn grasses are ideally suitable for most Michigan lawns. For the well-fertilized deep loam soils in sunny locations he urged the use of a 100 per cent seeding of Kentucky bluegrass. On light soils and soils where shade conditions prevail, Professor Harrison recommended creeping red fescue. Needless to say, much spirited discussion followed from the group.

The next speaker was Prof. Walter Morofsky. He brought along branches of insect and disease-infected pines, spruces and Douglas firs. He stressed the importance of a proper spray program to combat the many insects and diseases which are taking a heavy toll of the evergreens.

Edward Andrews, the next speak-

er, brought the group up to date on the spread of Dutch elm disease and oak wilt in Michigan. Dutch elm disease, he said, has been definitely found in the Detroit area and in five counties surrounding Detroit. He urged that all dead and dying elm trees be removed and burned to prevent the spread of the elm bark beetle, which carries the deadly fungus. Oak wilt has spread north as far as Muskegon. Colored slides showing the symptoms of the disease were presented. No known cures have been found for oak wilt. All infected trees should be cut down and burned; trenching around the infected trees to a depth of 18 inches is effective in preventing the spread of the disease through root graft.

Prof. Harold Davidson gave a graphic portrayal of various sales techniques. He also urged the education of nursery employees in all work practices so that the employee will have a feeling of confidence in doing his particular job.

Banquet

At 6:30 the members and guests adjourned to the Edgewood room of the Hotel Harris for a tasty banquet. Musical entertainment during the supper hour was provided by the Misses Marjorie and Phyllis Westra, who played the piano and accordion. At the conclusion of the meal, Chris Patterer introduced John Light, newly elected president of the Michigan Nurserymen's Association. Mr. Light in turn introduced out-of-town guests, including a former president of Michigan Nurserymen's Association, Art Watson, Grand Rapids. Harold Hunziker, long active in nurserymen's affairs, spoke on the value of get-togethers such as these and felt that much good can come from discussion of mutual problems.

The speaker for the evening, C. E. "Ed" Morris, Grand Rapids, gave a most excellent talk on plant materials. He illustrated his subject with vivid color slides. He encouraged the use of rhododendrons and azaleas where they can be safely grown in Michigan. He showed what is being done at Grosse Ile, near Detroit, by E. M. Stanton. In his work with the park department of Grand Rapids, Mr. Morris has urged the use of many shrubs and trees which heretofore have been considered not of practical use in Michigan. He said, too, that enough use is not being made of good native material in the landscape work. He suggested the nannyberry, *Viburnum lentago*; Jersey tea, *Ceanothus americanus*, and the butterfly milkweed, *Asclepias tuberosa*.

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GENERAL BRADLEY

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GENERAL MARSHALL

(Corliss Originations)

Large, perfect
double flowers
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heavy frosts...

Fine for
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Compact, bushy
...Easy to grow.

You'll love **LEGIONNAIRE** for its generous display of gay, sparkling yellow flowers with a golden heart.

AMVET will enchant everyone with its superb pure white petals and delicate yellow inner rays.

STRONG ROOTED CUTTINGS

(Each kind) **\$20.00** per 100

POT or BANDED PLANTS

(Each kind)..... **\$4.00** per 12, **\$25.00** per 100

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Cuttings ready
from Feb. to
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plants after
Mar. 15.

MARSHALL — deep old rose,
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coppery-red.
BRADLEY — apricot, seashell-pink
and buff.

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(Each kind) **\$15.00** per 100

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CHOICE NURSERY STOCK SURPLUS LIST

	Per 100
200 Andromeda Japonica, 12 to 15 ins.	\$150.00
25 Betula Pendula Laciniata, 8 to 10 ins.	600.00
40 Berberis Verruculosa, 12 to 15 ins.	350.00
40 Maple Crimson King, 7 to 8 ft.	550.00
10 Euonymus Alatus, 1½ to 2 ft. (\$1.50 each).	
100 Euonymus Alatus Compactus, 2-yr., x.	50.00
50 Euonymus Alatus Compactus, 15 to 18 ins.	125.00
1000 Euonymus Coloratus, 1-yr., cuttings.	20.00
10 Euonymus Europaeus, 3 to 4 ft.	75.00
200 Euonymus Radicans Variegatus, 3-yr.	75.00
20 Hydrangea Serrata Acuminata, 2 to 3 ft.	250.00
100 Azalea Knapmeyer, 4-yr., x. 50 Azalea M. Christopher Wren, 3-yr. (Like Louisa Hunne- well)	75.00 250.00
50 Azalea Mollis Dr. Oosthoek, 12 ins. (\$2.00 each)	
100 Azalea Pontica, 4-yr., x.	150.00
25 Azalea Roseaeflora, 12 to 15 ins.	350.00
50 Azalea Sang de Gentbrugge, 3-yr.	250.00
100 Azalea Schlippenbuechi, 3-yr., x.	65.00
25 Azalea, Ward's Ruby, 10 to 12 ins.	300.00
50 Rhus Cotinus Rubrifolium, 18 to 24 ins.	150.00
50 Syringa Microphylla Superba, 18 to 24 ins.	150.00
50 Juniperus Sargentii, 1-yr., grafts.	90.00
100 Koeleruteria, 2 to 3 ft.	100.00
50 Fagus Sylvatica Tricolor, 2 to 3 ft.	400.00
100 Forsythia Lynwood Gold, 2 to 3 ft.	120.00
25 Magnolia Macrophylla, 2 to 3 ft.	250.00
100 Mahonia Aquifolium, 3-yr., x.	60.00
90 Mahonia Aquifolium, 18 to 24 ins.	400.00
100 Mahonia Nervosa, 1-yr., x. 100 Blue Spruce (hand-picked seed), 3-yr.	35.00 25.00
6 Acer Griseum, 3 ft. (\$8.00 each)	
50 Magnolia Lennel Alba, 1-yr., grafts.	150.00
25 Lygodium Palmatum (Climb. Fern), clumps (\$1.00 each)	
50 Cornus Florida, 2 to 3 ft.	100.00
50 Cladrastis Lutea, 3-yr., x.	50.00
50 Ilex Serrata, 2 to 3 ft.	150.00
50 Sorbus Aucuparia, 3 to 4 ft.	50.00
40 Cryptomeria, 1-yr., grafts.	100.00
25 Indigofera Decora, 3-yr., x.	75.00
25 Franklinia, 2 to 3 ft.	250.00
25 Acer Ginnala, 3-yr., x.	50.00
25 Flow. Raspberry, 3 to 4 ft.	100.00
20 Ginkgo, 10 to 12 ft. (\$6.00 each)	
25 Paulownia Imperialis, 5 to 6-ft. whips (\$4.00 each).	
100 Philadelphus Burfordensis, 1-yr.	100.00
100 Picea Omorika, 3-yr.	25.00
20 Prunus Serrulata Kwanzan, 6 to 8 ft.	500.00
50 Hawthorn, Paul's Scarlet, 7 to 8 ft.	500.00
10 Hawthorn, White Double, 7 to 8 ft.	500.00
10 Viburnum Americanum, 2 to 3 ft. (\$1.00 each)	
50 Viburnum Opulus Nana, 2-yr., x.	75.00

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FIVE HUNDRED ACRES OF ORNAMENTAL STOCK

Both evergreens and deciduous
in liners and finished materials.

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FAIRVIEW EVERGREEN NURSERIES
FAIRVIEW, PA.

Roses in the News

NEW ROSE TEST GARDENS

All-America Rose Selections announced the opening of new test gardens at the group's January 11 and 12 meeting held at the Hotel La Salle, Chicago. The gardens are at Ohio State University, Columbus, O., under the direction of Dr. L. C. Chadwick, head of the horticulture department; at North Carolina State College, Raleigh, N. C., under Prof. Glenn O. Randall, department of horticulture, and at the University of Florida, Gainesville, Fla., under Prof. J. Hapgood Brooks III, department of horticulture. Directors will also act as judges.

In addition to the test gardens, demonstration gardens having the same requirements will also be opened at the N. Van Hevelingen Nurseries, Portland, Ore., with Mrs. Rita Van Hevelingen as director; at Peterson & Dering Nursery, Scappoose, Ore., with E. "Mike" Dering as director; at California Nurseries, Niles, Calif., with George C. Roeding, Jr., as director; at Germain's, Inc., North Hollywood, Calif., with Milton Whisler as director, and at Thomasville Nurseries, Thomasville, Ga., with Samuel C. Hjort as director. The scores of the demonstration gardens will not be averaged with those of the official test gardens, since some of the demonstration gardens are of an apprentice nature and others are close to the official test gardens and therefore likely to give an overbearing judgment to certain sections of the country.

A. A. R. S. has also announced the availability of a 13-minute colored movie with sound track.

HONOR ALL-AMERICA ROSES

Twenty All-America Rose Selections won top honors at the nation's rose shows during 1952, according to a recent article in the American Rose Magazine. Most of these were staged under the auspices of the American Rose Society.

Peace, the All-America Rose Selection for 1946, received prizes in 36 shows; Charlotte Armstrong, 1941 winner, received top honors in five shows; Heart's Desire, the 1942 selection, received major awards in two shows; Mme. Chiang Kai-shek, a 1944 choice, received one award, and Miranda, a 1945 All-America rose, was honored in eight shows. Other 1945 winners which received new

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Well-established potted
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They say "seeing is believing," so we cordially invite you to come and see the plants we grow here — specimen landscape material as well as lining-out sizes.

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PIN OAKS

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1½ to 2 ins.	\$ 8.25	\$14.85
2 to 2½ ins.	12.10	20.90
2½ to 3 ins.	16.50	30.25
3 to 3½ ins.	22.00	41.80

RED OAK, SWEET GUM, SUGAR, RED
AND NORWAY MAPLE IN ASSORTED
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60 acres growing. Skaneateles, N. Y.

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MILLIONS GROWN EVERY YEAR

SCOTCH PINE, 2-yr., 2 to 4 ins., \$10.00 per 1000, \$2.00 per 100.

SEEDLINGS		Per 100	1000		Per 100	1000
Scotch Pine, 2-yr., 4 to 6 ins.		\$4.00	\$20.00	Black Hills Spruce, 2-yr., 4 to 8 ins.	\$ 5.00	\$25.00
3-yr., 5 to 10 ins.		6.00	30.00	Red Spruce, 2-yr., 2 to 6 ins.	5.00	25.00
3-yr., 10 to 16 ins.		9.00	45.00	Colorado Blue Spruce, 3-yr., 3 to 6 ins.	6.00	30.00
Scotch Pine Riga, 2-yr., 2 to 4 ins.		3.00	15.00	Douglas Fir, 2-yr., 2 to 4 ins.	5.00	25.00
2-yr., 4 to 8 ins.		5.00	25.00			
3-yr., 10 to 16 ins.		9.00	45.00	TRANSPLANTS		
Austrian Pine, 2-yr., 3 to 6 ins.		4.00	20.00	Scotch Pine, 2-1, 3 to 5 ins.	6.00	30.00
American Red Pine, 2-yr., 2 to 5 ins.		4.00	20.00	2-1, 5 to 8 ins.	7.00	35.00
Ponderosa Pine, 2-yr., 3 to 8 ins.		3.00	15.00	Austrian Pine, 2-1, 3 to 6 ins.	5.00	25.00
Ponderosa Pine, 4-yr., 8 to 12 ins.		5.00	25.00	Norway Spruce, 2-1, 3 to 5 ins.	6.00	30.00
Mugho Pine, Dwarf, 2-yr., 2 to 4 ins.		5.00	25.00	White Spruce, 2-1, 3 to 5 ins.	6.00	30.00
Norway Spruce, 2-yr., 2 to 4 ins.		3.00	15.00	Colorado Blue Spruce, 2-2, 4 to 8 ins.	10.00	50.00
White Spruce, 2-yr., 3 to 6 ins.		4.00	20.00			
White Spruce, 4-yr., 8 to 12 ins.		8.00	40.00			

Terms: Cash, or 25% down payment with C.O.D.
500 of one kind at the 1000 rate. Prices F.O.B. Shelocta.
No charge on packing.

Write us for special discount rates on large orders.

plaudits were Floradora and Horace McFarland.

The 1947 All-America rose, Rubaiyat, received honors in seven shows. Five 1948 winners to receive recognition were Diamond Jubilee (two shows), Nocturne (four shows), Pinkie (one show), San Fernando (one show) and Taffeta (two shows). Tallyho, an All-America winner in 1949, was honored at six shows.

The 1950 winners were represented in 1952 by Fashion, which won prizes in five shows, and Sutter's Gold, which took a prize at one show.

The most recently available All-America Selections were all represented in the winning lists. Fred Howard took the honors in one show; Helen Traubel starred in another, and Vogue carried off prizes in four other shows.

BEGIN TYLER ROSE STUDY

A 5-year research program on the production, storage and processing of rosebushes was started in February by Consolidated Nurseries, Tyler, and the extension service of Texas A. and M. College. Findings will be given to the entire rose industry.

According to an announcement made February 7 by Edwin F. Tedder and Everett E. Janne, executive vice-president and director of research, respectively, of Consolidated Nurseries, the research will be divided into six parts, as follows:

COTONEASTER

These are all strong seedlings.

	Per 100	Per 1000
Cotoneaster Acutifolia, transplants, 12 to 18 ins.	\$25.00	
Cotoneaster Divaricata, 1-yr. seedlings, 6 to 10 ins.	8.00	\$ 60.00
Cotoneaster Divaricata, 1-yr. seedlings, 10 to 18 ins.	10.00	90.00
Cotoneaster Horizontalis, 1-yr. seedlings, 2 to 4 ins.	10.00	90.00
Cotoneaster Horizontalis, 1-yr. seedlings, 4 to 6 ins.	15.00	125.00
Cotoneaster Praecox, 1-yr. seedlings, 4 to 8 ins.	25.00	

Cotoneaster Multiflora

Strong, 1-yr. grafts, true to name
18 to 24 ins.

\$65.00 per 100
\$600.00 per 1000

C. HOOGENDOORN

Turner Road

NEWPORT, R. I.

ORNAMENTAL EVERGREENS

Trees & Shrubs

BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

CHINESE CHESTNUTS

Hemming strain of heavy-bearing trees.

	Each Per 10	Each Per 100	Each Per 1000
12 to 18 ins.	\$0.25	\$0.22½	\$0.20
18 to 24 ins.	.35	.32½	.30
2 to 3 ft.	.60	.55	.50
3 to 4 ft.		SOLD OUT	

EASTERN SHORE NURSERIES, INC.
EASTON, MD.

DYBVG SPECIALS

Buffalo Berry (Shepherdia Argentea)	1000
1500 6 to 9 ins.	\$ 25.00
Caragana Arborescens	
10,000 6 to 12 ins.	14.00
Cotoneaster Integerrima	
2000 4 to 8 ins.	25.00
2000 8 to 12 ins.	40.00
Elm, American	
50,000 12 to 18 ins.	14.00
50,000 18 to 24 ins.	18.00
50,000 2 to 3 ft.	25.00
5000 3 to 4 ft.	35.00
1000 4 to 5 ft.	60.00
Elm, Chinese	
50,000 8 to 12 ins.	10.00
75,000 12 to 18 ins.	15.00
Hackberry	
10,000 9 to 12 ins.	14.00
20,000 9 to 18 ins.	17.50
40,000 18 to 24 ins.	30.00
10,000 2 to 3 ft.	45.00
Hansen's Bush Cherry	
10,000 12 to 24 ins.	40.00
Soft Maple	
3000 3 to 4 ft.	60.00
1000 4 to 5 ft.	100.00
Rhus Trilobata	
1400 8 to 12 ins.	30.00
5000 10 to 24 ins.	40.00
Juniperus Virginiana	
(From South Dakota seed)	
200,000 1-yr., 2 1/2 to 4 ins.	15.00
200,000 2-yr., 4 to 6 ins.	20.00
150,000 2-yr., 6 to 8 ins.	25.00
Write for special quantity discounts.	
Fern-leaved Bleeding Heart	
(Dicentra Eximia)	
1000 5 to 8 eyes.	15c each
Put them in pots and sell them in bloom within a few days.	
Coral Lily Bulbs	
8000 2 to 3 ins.	\$30.00 per 1000
First \$200.00 offer takes them all.	

WANTS

1200 F. J. Grootendorst Roses.
No. 1 1/2 or 12 to 18 ins.
500 Durham Raspberry
200 Red Leaf Barberry. 15 to 18 ins.

Get set to make an easy job of cleaning seeds this year. The **DYBVG SEED CLEANER** will do the job for you. Price \$275.00 F.O.B. Colton, S. D. It's in a hurry to pay for itself.

DYBVG NURSERY
COLTON, S. D.

1. Various types of understocks will be investigated to determine which is best suited to conditions in east Texas.

2. The feasibility of irrigating rose fields in the east Texas area will be determined and the best method of irrigation will be assessed.

3. Cold-storage problems.

4. The amount and type of fertilizer to be used for producing rose-bushes, and the keeping qualities of various fertilizers in cold storage.

5. Methods of defoliation, both in the field and after digging, which will not damage the plant.

6. Best methods of handling rose-bushes for commercial distribution, such as root wrapping and packaging.

Horticulturists for the project will be Mr. Janne and P. R. Johnson, who is in charge of the Texas A. and M. station near Swan. Field experiments will be conducted on fields at the station and on those of the 26-member growers of Consolidated Nurseries. Provisions have been made for the use of land and equipment needed for the production of 2,500,000 to 4,000,000 rosebushes. Also to be used is the new 320,000 cubic foot cold storage of Consolidated Nurseries, which can hold several million rosebushes.

Mr. Janne joined Consolidated Nurseries in June, 1952, to direct the firm's part in the research program. Originally from Kansas, he did undergraduate work at Kansas State College, Manhattan, and graduate work at Ohio State University, Columbus. At the latter school he did research on the effects of various temperatures on the survival, growth and flower production of hybrid tea roses. From 1942 to 1946 he was on duty with the First army in Europe and later was recalled to service, being discharged as a first lieutenant.

Mr. Tedder has been with Consolidated Nurseries since July, 1952. He has been at Tyler since 1934 as a certified public accountant, except from 1943 to 1946, when he was in the navy doing communications work.

CONSOLIDATED NURSERIES HOLD OPEN HOUSE

An estimated 3,000 persons visited Consolidated Nurseries, Inc., Tyler, Tex., Sunday afternoon, February 15, when the firm held open house to mark its fifth anniversary and completion of its new cold-storage building, the largest in the country for rosebushes. C. J. Lauden, president

HARDY NATIVE EVERGREENS

Collected Stock
Canadian Hemlock, American
Arborvitae, Balsam Fir

	Per 100	Per 1000
2 to 4 ins., sdgs.	\$1.00	\$ 5.00
3 to 6 ins., sdgs.	2.00	10.00
6 to 9 ins., sdgs.	3.00	20.00
9 to 12 ins., sdgs.	7.00	45.00
12 to 18 ins., sdgs.	9.00	70.00

All first-quality stock, well-rooted and packed in sphagnum moss.

Send for trade list.

Cash, please.

R. M. COLE

Box 37 CHARLOTTE, VT.

SPECIALS

Red Barberry, 3-yr. S.
Euonymus Radicans Vegetus
Flowering Shrubs in variety
Blueleaf Arctic Willow
Lombardy Poplar
Babylon Willow
Taxus in variety
Perennials in variety
Fruit Trees

Trade List upon request.

BROWN BROS. CO.
EAST ROCHESTER, N. Y.

ROSA MULTIFLORA JAPONICA

Seedlings of vigorous, thorny, upright type for living fence. Excellent plants. Tops cut back to about 10 ins. when graded.

	Per 1000
18 to 24 ins., 5 to 10 mm.	\$40.00
15 to 18 ins., 4 to 5 mm.	30.00
10 to 15 ins., 2 to 4 mm.	20.00

Prices include packing, F.O.B. Hundred, W. Va. Write for special quotations on large quantities.

JOLLIFFE NURSERY

Box 101
KNOB FORK, W. VA.
Multiflora—Our Specialty

PHILADELPHUS VIRGINALIS

1-yr., R.C.	10c each
2-yr., 12 to 18 ins.	25c each
2-yr., 18 to 24 ins.	35c each

BALCOM NURSERY KOKOMO, IND.

MAGNOLIA NIGRA (Dark Red)
2 to 3 ft., B&B \$3.00 each
3 to 4 ft., B&B 4.00 each

We have these in our modern cold storage for shipment now or in the spring.
LITTLEFORD NURSERIES, VINCENTS, IND.

EVERGREENS

Seedlings and Transplants
For Spring, 1953, Planting.
Write for Price List and Planting Guide.
CLEARFIELD BITUMINOUS COAL CORP.
Department of Forests
INDIANA, INDIANA CO., PA.

and general manager, together with other executives and directors, received visitors in the large processing building. There they saw rosebushes being packaged and also enjoyed refreshments.

A full staff was on hand to carry on regular operations so that the public might see how rosebushes are received from the fields, graded, stored, packaged and shipped. At Consolidated Nurseries, bushes are brought by truck from the fields and graded in the grading sheds from which they may be sent to the processing building or put in the cold storage for future processing. Seven processing lines are kept running. A rosebush may travel along any one of these. First, a worker ties the tops of the bush by machine, and then trims it to the desired length by hand. Another worker packs the roots in a moisture-retaining combination of moss, sawdust or shingle tow and shredded paper, and wraps them in moisture-proof paper. A girl dips the tops of the plant in paraffin, and another girl slips a colorful moisture-proof bag over the wrapped roots and ties it on securely with wire. The bags are imprinted in color with the name of the firm, the variety and planting instructions. The packaged bushes are packed 20 to 25 to the carton, which is stapled shut by machine and sent on a mechanical conveyer into a refrigerated van or freight car for shipment.

The processing building also houses business offices and a lithography room. There, thousands of tags, labels and bags are stored. Automatic labeling machines are used.

In another building are processed the firm's "fertil-potted" roses. The firm has one of the only two machines in the country which embed the prepruned roots in a briquette of peat moss, called the "fertil-pot." The fertil-potted rosebush is actually growing when the customer receives it. At present, this packaging method is confined to patented roses and delivery to southern states by Consolidated Nurseries.

Consolidated Nurseries were chartered five years ago by a small group of rose growers and incorporated for 50 years at \$250,000. Capital and surplus have been increased to over \$400,000, and the stockholders and growers now number 27.

After the first two years it became evident that the facilities leased would soon be inadequate, so in 1951 plans were made to build for future needs. Twelve acres of land and buildings were purchased at Owentown, eight miles east of Tyler. There

POTTED GRAFTS FOR SPRING, 1953

	Per 100	Per 1000
Acer Palmatum Atropurpureum	\$ 65.00	
Acer Palmatum Dissectum Atropurpureum	65.00	
Cornus Florida Alba Plena	50.00	
Cornus Florida Pendula	50.00	
Cornus Florida Rubra	50.00	\$450.00
Cornus Florida Rubra Prosser	65.00	
Cryptomeria Lobbi	50.00	
Fagus Sylvatica Asplenifolia (Fernleaf)	65.00	
Fagus Sylvatica Fastigiata (Pyramidal)	65.00	
Fagus Sylvatica Pendula	65.00	
Fagus Sylvatica Riversi (Purple Beech)	65.00	
Magnolia Alba Superba	60.00	
Magnolia Lennei	65.00	
Magnolia Soulangeana	60.00	
Magnolia Soulangeana Nigra	60.00	
Magnolia Stellata	60.00	
Magnolia Stellata Rosea	60.00	
Magnolia Stellata Rubra	60.00	
Magnolia Stellata Waterlily	60.00	
Pinus Cembra	50.00	
Pinus Strobus Nana	50.00	
Pinus Strobus Pendula	50.00	
Pinus Parviflora Glauca	50.00	
Picea Moerheimi	100.00	
Tanyosho Japanese Table Pine	40.00	
Tsuga Canadensis Heterophylla	40.00	
Tsuga Canadensis Sargentii	45.00	
Wistaria Multijuga (Lavender clusters)	40.00	

No Packing Charges. 25 per cent deposit on all C.O.D. orders.

VAN DINE NURSERY

Berdan Ave., R. D. 4

Preckness, Paterson, N. J.

TAXUS

Kelseyi, Brevifolia (upright) and Hicksi
25 to 40 ins., 9 years old, XXX, \$2.75 each.

LINERS

Above varieties, 12 to 14 ins., XX, 6 years old, 50c each.
14 to 18 ins., XX, 7 years old, 85c each.

SPECIAL

10 large Halloran spreaders, 3 ft. high, 5-ft. spread, \$15.00 each.
Limited quantity of spreading Brevifolia and Cuspidata 2 1/2 x 3 1/2 ft.,
9 years old, \$4.00 each.

Buyers will do own digging, excepting liners. No shipping.

H. VOELLMAR, SUGAR HOLLOW

Route 7, Opposite Airport

Danbury, Conn.

Tel. Danb. 3-1888

THE LAKETON NURSERIES, Laketon, Ind.

Quality Nursery Stock since 1880

PACHYSANDRA

The ideal permanent evergreen ground cover plant for shady and semishaded areas in all climates. Strong, well-rooted, 1-yr. plants: \$3.75 per 100; \$35.00 per 1000; \$32.50 per 1000 for 5000 or more in one shipment. Available for prompt shipment—late March through November. Order now for your spring requirements.

PEEKSKILL NURSERY

SHRUB OAK, N. Y.

SPREADING JUNIPERS

Excellent quality. Well-sheared.

PFITZER and HETZ

7000 in following sizes:

	Each Per 10	Each Per 100
Pfitzer Junipers		
15 to 18 ins.	\$3.25	\$3.00
18 to 24 ins.	3.50	3.25
24 to 30 ins.	4.25	4.00
30 to 36 ins.	4.75	4.50
36 to 42 ins.	5.50	5.25
Hetz Junipers		
24 to 30 ins.	3.75	3.50
30 to 36 ins.	4.50	4.25
36 to 42 ins.	5.25	5.00

Balls and handling must be satisfactory.

Truck or car loads only.

CRAWFORD NURSERY

BUCYRUS, O.

LANDSCAPE MATERIAL

Rhododendron Maximum

Kalmia Latifolia

Pruned, compact, healthy green foliage, B&B, with exceptionally good balls. F.O.B. Boone, North Carolina. Truck or car lots, February and March.

15 to 18 ins.	\$1.25 (retail value \$3.50 to \$4.50)
18 to 24 ins.	1.65 (retail value 5.00 to 6.50)
24 to 30 ins.	2.45 (retail value 7.00 to 8.00)

Above available from Bellville, Ohio, March and April.

15 to 18 ins.	\$1.50
18 to 24 ins.	2.00
24 to 30 ins.	3.25

Pinus Resinosa (Red Pine)

Pruned, exceptionally fine, heavy specimens; wide, compact. About 5000. First digging from this block.

4 1/2 to 5 ft., B&B \$5.50

Cornus Florida

5 to 6 ft., B&B	\$3.50 (25% with fl. buds)
6 to 7 ft., B&B	4.50 (75% with fl. buds)
7 to 8 ft., B&B	5.50 (100% with fl. buds)
8 to 9 ft., B&B	6.50 (100% with fl. buds)
9 to 10 ft., B&B	7.50 (100% with fl. buds)

Above available after March 1.

WADE & GATTON NURSERIES

BELLVILLE, O.

LINING-OUT STOCK

Our new Spring, 1953, price list is now ready for distribution. If your name is not on our mailing list, send post card for copy.

THOMAS B. MEEHAN CO., Inc.
DRESHER, PA.

COTONEASTERS

Specimen Landscape Stock

Heavy and well-branched

Per 10 Per 100

Cotoneaster Divericata, B&B

3-yr., T., 18 to 24 ins. \$20.00 \$175.00

3-yr., T., 2 to 3 ft. 25.00 225.00

Lining-Out Stock.

1-yr., T., 15 to 18 ins. 35.00

BR

Order now for spring delivery.

FLORAL GARDENS EATON, OHIO

WELLER'S PERENNIALS

With That Wonderful Root System

Headquarters for

HARDY MUMS AND PHLOX.

Ask for our Perennial Catalog.

WELLER NURSERIES CO., Inc.

Leading Perennial Growers

HOLLAND, MICH.

HENRY NURSERIES

Ingels Bros.

HENRY, ILLINOIS

Growers of General Nursery Stock.

Visitors Welcome.

are now over 110,000 square feet of processing and warehouse space and 320,000 cubic feet of cold storage. The new cold storage, the largest in the country exclusively for rose-bushes, can hold several million rose-bushes. The firm has its own fleet of refrigerated vans. About 180 persons are on the staff.

Receiving at the open house with Mr. Lauden were E. F. Tedder, executive vice-president; C. A. Drago, vice-president in charge of sales; E. W. Kelly, superintendent; Everett Janne, director of research, and Brady H. White, assistant sales manager. Chairman of the refreshment committee was Mrs. Betty Shamburger Atwood, widow of a pioneer east Texas rose grower and the only woman stockholder in the company.

PLANTS UNDER PLASTIC

The successful propagation of hard-to-root plants from cuttings by using a polyethylene plastic covering, a method devised by Lewis F. Lipp, chief propagator at the Arnold Arboretum, Jamaica Plain, Mass., was described in the February 16 issue of Newsweek magazine. Mr. Lipp has been considering the problem for some time and finally chanced upon the idea of using polyethylene plastic to prevent excessive transpiration during the propagation period.

The article cited Mr. Lipp's success in rooting plants of *Taxus baccata fructu-luteo*, an ancient and yellow-berried variety of the English yew. Cuttings from a group of these hard-to-root plants were planted without the plastic covering and did not root, as was expected. Another group, covered with the plastic, were still green and sturdy six weeks after they had been cut from their parent tree and were about to root.

For his rooting medium, Mr. Lipp uses a light, airy soil consisting of equal parts of rich peat, sharp sand and fluffs of foamed styrene plastic. Over the cuttings he arches wickets bent from clothes hangers. Over the wire he drapes cheesecloth. Finally, after one thorough watering, he wraps the whole box in a thin sheet of polyethylene plastic. The plants then need no further watering. This technique, Mr. Lipp said, will allow the professional horticulturist to propagate plants by cuttings when ordinarily he would have to resort to slower and more expensive grafting. It should also make propagation a less hazardous venture for the amateur horticulturist, as it eliminates the danger of watering cuttings too much or too little.

for SPRING DELIVERY

AUSTRIAN PINE — \$35.00 per 1000

4 to 6 ins., 2-yr. seedlings

SCOTCH PINE (Riga Var.) — \$30.00 per 1000

4 to 6 ins., 2-yr. seedlings

RED PINE — \$20.00 per 1000

4 to 6 ins., 2-yr. seedlings

RED PINE — \$65.00 per 1000

12 to 16 ins., 4-yr. transplants

Write for Complete 1953 Spring List

EVERGREENS • SEEDLINGS • TRANSPLANTS

NEKOOSA-EDWARDS PAPER COMPANY

NEPCO LAKE NURSERY

Telephone 4037

PORT EDWARDS, WISCONSIN

CONNECTICUT NURSERIES

In a recent report on the Connecticut agricultural experiment station's nursery inspection service, the changes of a half century were noted. In 1901 there were 23 nurseries in Connecticut growing about 400 acres of plants, mostly fruit trees. More than half of these had San Jose scale, which was eliminated (chiefly by burning trees) before certification. Fifty years later, 349 nurseries grew 3,951 acres of yew, hemlock, spruce, juniper and deciduous shade trees and many ornamental shrubs. San Jose scale was found in only 2 per cent of the nurseries. Gall aphid on spruce were more common than any other pest, with lecanium scale on yew a close second. Almost half of the nurseries had no serious pests in 1951.

GREENLAND NURSERIES are being constructed on Highway 17, Paramus, N. J. When the buildings are completed in April, the nurseries will sell retail and wholesale stock.

HEARINGS on the application of Elmhurst Nurseries, Elmhurst, Ill., for reorganization have been continued until March 7 at 10 a. m., in room 400, 25 North Ottawa street, Joliet, Ill.



Trained Horticulturist

PFITZER JUNIPER LINERS

In wood plant bands. For field planting.

6 to 8 ins.	14 1/2c
8 to 10 ins.	20c
10 to 12 ins.	26c

Prices are for total order of 300 or more. Less than 300, 2c more per plant.

Also **Golden Pfitzer, Greek, Andorra and Ashford Junipers.**

See our classified ad.

Book your order for spring.

McININCH GREENHOUSES St. Joseph, Mo.

EVERGREENS FOR THE MIDWEST

Spring, 1953

JUNIPERUS PFITZERIANA

	Each
15 to 18 ins.	\$2.50
18 to 24 ins.	3.25
24 to 30 ins.	4.00
30 to 36 ins.	4.75

JUNIPERUS PFITZERIANA GLAUCA

15 to 18 ins.	2.50
18 to 24 ins.	3.25
24 to 30 ins.	4.00

JUNIPERUS GLAUCA HETZI

18 to 24 ins.	3.00
24 to 30 ins.	3.75
30 to 36 ins.	4.50

JUNIPERUS VIRGINIANA GLAUCA (Grafts)

3 to 4 ft.	4.00
4 to 5 ft.	5.00

JUNIPERUS VIRGINIANA CANAERTI (Grafts)

3 to 4 ft.	4.00
4 to 5 ft.	5.00

JUNIPERUS VIRGINIANA BURKI (Grafts)

3 to 4 ft.	4.00
------------	------

TAXUS HICKSI

15 to 18 ins.	3.00
18 to 24 ins.	4.00

TAXUS HATFIELDI

15 to 18 ins.	3.00
18 to 24 ins.	4.00

EUONYMUS PATENS (Large-leaf strain)

24 to 30 ins.	3.50
30 to 36 ins.	5.00

BALD CYPRESS (Heavy)

3 to 4 ft.	3.00
4 to 5 ft.	4.50
5 to 7 ft.	6.00

Write For More Complete List.

All stock dug with baling forms, assuring uniform, round, cylindrical balls. Economical truck delivery can be arranged. 5% cash discount for all cash orders or when paid at delivery. Inspection invited.

H. B. HARTLINE FARM MAKANDA, ILL.

"On the Hills of Southern Illinois"
Telephones Carbondale, Ill.

HYDRANGEA P. G. 1-yr. CONCORD GRAPES

Thorne Brewster

WILLOWBEND NURSERY

PERRY, OHIO

NURSERY MANUAL, by L. H. Bailey.
Standard manual on propagation. 470 p., \$5.50.
American Nurseryman Chicago 4.

Tree Maintenance

By Noel Wysong

TREES AND LIGHTNING

One frequently hears a statement made to the effect that oaks are struck more often by lightning than any other tree and that some trees, beeches particularly, are safe. The implication usually is that some mysterious relationship exists between lightning and plant species whereby some trees are spared and others are destroyed. Is such actually the case? Do some trees possess properties that attract lightning bolts, while others are so constituted that they repel it?

In 1936 a committee was appointed by officers of the National Shade Tree Conference to study the effects of lightning on shade trees and to determine, if possible, the influences that govern the type and severity of damage. This committee was headed by A. Robert Thompson, forester, of the National Park Service. The work of the committee consisted of making a nation-wide survey of lightning-struck trees and assembling and analyzing the data gathered. Assisting in this task were 125 collaborating members of the conference located in 29 states and the District of Columbia. During its 10-year life, the committee gathered data on 420 struck trees in which were represented 64 species and 30 genera.

The final report of the committee, submitted by Mr. Thompson in 1946 at the 22nd annual meeting of the National Shade Tree Conference and contained in complete form in the conference proceedings for that year, presents some interesting information and conclusions. Of the 420 trees struck, 31 per cent were oaks; 18 per cent, elms; 11 per cent, poplars; 7 per cent, tulip trees; 6 per cent, pines; 5 per cent, ashes, and 4 per cent, maples. The remaining 18 per cent were composed of 23 genera on which fewer than 10 lightning strikes were reported. Incidentally, no beech trees were reported as having been struck. This section of the report, if considered alone, would seem to indicate that there is a certain affinity between oaks and lightning.

Reading further in the report we find, in reference to data presented in tabular form on the trees struck, this statement, "Analysis of these data reveals that 9 per cent of the trees were either standing alone,

NORTHERN-GROWN

Grown, graded and packed to reach you in perfect condition.

3-yr. Seedlings

Per 100 Per 1000

Black Hills Spruce		
6 to 8 ins.	\$4.50	\$40.00
4 to 6 ins.	3.50	30.00
Norway Spruce		
6 to 8 ins.	3.50	30.00
4 to 6 ins.	3.00	25.00
Scotch Pine, Riga		
4 to 5 ins.	3.50	25.00

2-yr. Seedlings

American Arborvitae		
2 to 4 ins.	3.00	25.00
Black Spruce , 2 to 4 ins.	3.00	25.00
Black Hills Spruce		
2 to 4 ins.	3.00	25.00
Norway Spruce , 2 to 4 ins.	2.50	22.50
Mugho Pine (Certified Tyro- lian Seed), 2 to 3 ins.	4.00	35.00
Scotch Pine, Riga		
2 to 4 ins.	2.50	20.00
Douglas Fir , 2 to 4 ins.	2.50	20.00
Concolor Fir , 2 ins.	4.00	...
Platte River Red Cedar , no blight,		
8 to 10 ins.	3.00	25.00
6 to 8 ins.	2.00	18.00
4 to 6 ins.	1.75	15.00
1-yr., 2 to 4 ins., (Average 3 1/2 ins.)	1.75	12.00
Special price on Red Cedar lots 10 to 100,000.		

Juniperus Communis		
2 to 4 ins.	3.00	25.00
Juniperus Scopulorum		
2 to 4 ins.	3.00	25.00

Rooted Cuttings —1-yr. in trans. bed.		
Pyramidal Arborvitae		
4 to 6 ins.	18.00	150.00
Siberian Arborvitae		
4 to 6 ins.	18.00	150.00
Globe Arborvitae		
4 to 6 ins.	15.00	...

Write for list.

J. R. PALMER & SON BLACKDUCK, MINN.

AZALEAS—EUONYMUS

Field-bedded in Peat

Per 100 Per 1000

Azalea Ghent Hybrid		
3 to 6 ins., TT	\$15.00	\$125.00
Azalea Mollis		
3 to 6 ins., TT	15.00	125.00
10 to 12 ins., TTT, unbudded	40.00	...
10 to 12 ins., TTT, unbudded, extra heavy	60.00	...
Azalea Pontica		
3 to 6 ins., TT	15.00	125.00
Euonymus Coloratus Erecta		
10 to 12 ins.	22.50	...
Euonymus Radicans Erecta		
10 to 12 ins.	22.50	...

WARNER NURSERY

R. F. D. 2

WILLOUGHBY, Lake Co., OHIO

Location: U. S. Route 6,
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Chipman's RED RHUBARB

Large Divisions — Priced Right — Prompt Shipment

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Sioux Falls, S. D.



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Growers of Quality Evergreens
Lining-out Stock a Specialty

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EVERGREEN NURSERY CO.
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above or even with others (and of these, 84 per cent were of the dominant or codominant genus in the vicinity), while only 4 per cent were lower than associated trees (and of these, 82 per cent were of the dominant or codominant genus in the vicinity). Reversing the data, we find that 80 per cent of the struck trees were standing alone or belonged to the dominant or codominant genus in the vicinity (and of these, 96 per cent were standing alone, above or even with others), while 20 per cent represented a minor genus in the vicinity (and of these, 96 per cent were standing alone, above or even with others)."

Mr. Thompson then draws the following conclusion, "From the above analysis, it seems obvious that relative height and dominance of genus or species in the vicinity are the prime factors in determining where and what tree lightning will strike. In other words, if there are more oaks in a given area, more oaks will be struck, and most of the strikes will affect trees at least as tall as neighboring trees. Little or no significance can be attributed to the absence of any genus or species from our list on the basis of present information."

During the past several years a considerable number of lightning-struck trees have been noted in the forests and sparsely wooded areas of Cook county, Illinois. Although no detailed records have been kept, it has been observed that a large majority of the struck trees were oaks. Supporting Mr. Thompson's conclusions as to the influencing factors, oak is the dominant genus in the woodlands of Cook county. Moreover, most of the trees struck were as tall as, or taller than, surrounding trees.

Exceptions have been noted, however. A silver poplar, standing in the flood plain of the Skokie river and considerably lower in height than other poplars and elms within a radius of 50 feet, was completely demolished by lightning. An elm, partially overtopped by branches from a neighboring tree and dwarfed in height by a huge, old elm not more than 75 feet distant, was the recipient of a lightning bolt which ripped the bark down one of the top-most branches and caused the death, ultimately, of a portion of the crown. Lightning strikes on a black walnut and a black locust, neither of which was as tall as neighboring trees, have been noted. Observations of cases of lightning strike on trees of lesser height than their neighbors have

IRELAND'S NURSERY

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J. F. Ireland, Prop.

Phone 257

ONARGA, ILL.

SHEARED SPECIMEN EVERGREENS

	10 rate Each	100 rate Each
Balled and Burlapped		
Juniperus Pfitzeriana, 18 to 24 ins.	\$ 3.25	\$ 3.00
Juniperus Pfitzeriana, 24 to 30 ins.	4.25	4.00
Juniperus Hibernica Fastigiata, 3 to 4 ft.	2.75	2.50
Juniperus Excelsa Stricta, 18 to 24 ins.	2.75	2.50
Juniperus Excelsa Stricta, 24 to 30 ins.	3.00	2.75
Juniperus Virginiana Canaerti, 3 to 4 ft.	5.50	
Juniperus Virginiana Canaerti, 4 to 5 ft.	6.50	
Juniperus Virginiana Dundee, 3 to 4 ft.	5.50	
Juniperus Virginiana Dundee, 4 to 5 ft.	6.50	
Taxus Cuspidata (Spreading), 15 to 18 ins.	4.00	3.75
Taxus Cuspidata (Spreading), 18 to 24 ins.	5.00	4.75
Taxus Cuspidata Capitata (Upright), 30 to 36 ins.	8.25	8.00
3 to 3 1/2 ft.	11.00	10.00
3 1/2 to 4 ft.	13.50	12.50
4 to 4 1/2 ft.	16.00	15.00
4 1/2 to 5 ft.	21.00	20.00
Taxus Densiformis (New Spreader), 15 to 18 ins.	4.25	4.00
18 to 24 ins.	5.25	5.00
24 to 30 ins.	6.50	6.00
Taxus Media Hatfieldi (Upright), 15 to 18 ins.	3.75	3.50
18 to 24 ins.	4.75	4.50
24 to 30 ins.	6.50	6.00
Taxus Media Hicksi (Upright), 15 to 18 ins.	3.75	3.50
Taxus Media Hicksi (Upright), 18 to 24 ins.	4.75	4.50

SHADE TREES

Cutleaf Weeping Birch, 5 to 6 ft.	3.00	2.75
Cutleaf Weeping Birch, 6 to 8 ft.	3.50	3.25
Sorbus Aucuparia (European Mountain), 5 to 6 ft.	1.75	1.50

SHRUBS

Almond, Pink-flowering, 18 to 24 ins.	.40	.35
Almond, Pink-flowering, 2 to 3 ft.	.45	.40
Althaea, Double Pink and Double Red, 2 to 3 ft.	.30	.25
Caryopteris Blue Mist, 18 to 24 ins.	.55	.50
Euonymus Carrierei, 3-yr., 12 to 15 ins., BR.	.90	.80
Euonymus Carrierei, 3-yr., 15 to 18 ins., BR.	1.00	.90
Euonymus Patens, 15 to 18 ins., BR.	1.00	.90
Honeysuckle, Morrow, 2 to 3 ft.	.40	.35
Honeysuckle, Morrow, 3 to 4 ft.	.45	.40
Hydrangea P.G., 2 to 3 ft.	.45	.40
Kolkwitzia Amabilis (Beauty Bush), 18 to 24 ins.	.55	.50
Lilac, Persian, 18 to 24 ins.	.40	.35
Lilac, Persian, 2 to 3 ft.	.45	.40
Philadelphus Coronarius, 2 to 3 ft.	.45	.40
Philadelphus Coronarius, 3 to 4 ft.	.50	.45
Privet, A. R. N., 18 to 24 ins., 4 Br. and up	.15	.12 1/2
Spiraea Opulifolia Nana, 18 to 24 ins.	.30	.25
Spiraea Opulifolia Nana, 2 to 3 ft.	.35	.30
Spiraea Vanhouttei, 2 to 3 ft.	.30	.25
Spiraea Vanhouttei, 3 to 4 ft.	.35	.30
Weigela Floribunda (Red), 2 to 3 ft.	.50	.45

Prices: F.O.B. Onarga, Ill. Write for special prices in carload lots.
Office and storage located at Onarga, Ill.

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Our 30th Year

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LANSING 15, MICH.

B&B EVERGREENS

35 <i>Taxus Andersoni</i> , 15 to 18 ins.	\$3.00
20 <i>Taxus Andersoni</i> , 18 to 24 ins.	3.75
180 <i>Taxus Hicksi</i> , 15 to 18 ins.	3.00
130 <i>Taxus Hicksi</i> , 18 to 24 ins.	3.75

JUNIPERS

100 Irish, 30 to 36 ins.	\$2.00
100 Irish, 3 to 4 ft.	2.50
150 Pfitzer, 18 to 24 ins.	3.25
80 Pfitzer, 24 to 30 ins.	3.75
35 Pfitzer, 30 to 36 ins.	4.50
125 Blue Pfitzer, 15 to 18 ins.	2.50
100 Compact Pfitzer, 15 to 18 ins.	2.50
140 <i>Glaucia Hets Pfitzer</i> , 18 to 24 ins.	3.00
30 <i>Glaucia Hets Pfitzer</i> , 24 to 30 ins.	3.75
45 <i>Von Ehron Pfitzer</i> , 18 to 24 ins.	2.75
15 <i>Von Ehron Pfitzer</i> , 24 to 30 ins.	3.25
30 <i>Von Ehron Pfitzer</i> , 3 to 4 ft.	4.25

Terms—5% discount when cash accompanies order; 2% discount when paid within 10 days after receiving invoice; net 30 days.

Orders filled in order received. We can arrange for economical truck delivery.

ANNA NURSERY

F. G. Anderson, Prop.

ANNA, ILLINOIS

Phones: Office, 340 — Residence, 299R

SPRING, 1953, SURPLUS

Sheared, compact specimens. You may select and tag your own stock in advance.

Spreading Yews

18 to 24 ins.	\$ 5.25
24 to 30 ins.	6.50
30 to 36 ins.	7.50
36 to 42 ins.	8.75
42 to 48 ins.	10.00

Hicks' Yews

24 to 30 ins.	6.50
30 to 36 ins.	7.50
36 to 42 ins.	8.75

Pfitzer Junipers

30 to 36 ins.	6.00
36 to 42 ins.	7.25
42 to 48 ins.	8.50

Above prices are B&B for 10 to 1000.

SCHUELL NURSERIES

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SOUTH BEND, IND.

Six miles north on Portage Rd.
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been relatively rare, however, and probably have been remembered largely because of that fact.

Such trees as beech, which in some sections seem to prefer the bottom lands of deep ravines and narrow valleys, probably derive considerable protection from lightning because of their location. But beech is plentiful also in some areas where the land is flat as a table top. Osage orange, *Maclura pomifera*, is primarily an inhabitant of flat country, and usually stands remote from taller trees. While it seems extremely doubtful that any tree species possesses physiological characteristics that render it immune to lightning, this writer cannot recall ever having seen a beech or Osage orange tree that bore evidence of lightning strike. Until some evidence to the contrary can be presented, ardent admirers of beech trees may continue to assert—possibly with some justification—that they “are safe from lightning.”

SAVE OLD HOLLY GROVE

An old holly tree grove on Fire Island, New York, will be preserved by the action of an anonymous donor.

Richard H. Pough, chairman of the department of conservation at the American Museum of Natural History and president of Nature Conservancy, said the donor had bought the 16-acre tract, containing some of the oldest holly trees in America, for \$26,500.

The option on the tract, which was to have expired recently, was renewed by the new owner in favor of Wildlife Preserves, Inc., a holding corporation fostered by Nature Conservancy. It holds title to another 400-foot stretch of Fire Island beach purchased earlier for \$25,000 as part of the conservation project.

The holly trees, some of them hundreds of years old, dominate the Sunken Forest, a stretch of woodland east of Point o' Woods on Fire Island, a 30 mile sand spit off the south shore of Long Island, accessible only by boat. Nature Conservancy, an organization interested in setting aside unique bits of landscape for conservation, became interested in the project as a possible public preserve.

After the purchase of the first 20 acres of the tract, a campaign was begun to raise funds to purchase the remainder. Only \$8,000 had been raised by the time the option expired. Mr. Pough said that with the six months of grace provided by the new option, the group has “every expectation that we can raise the money” to purchase the property.

SPECIMEN EVERGREENS

4 to 6-yr. transplanted and sheared plants.

250 <i>Juniperus Virginiana</i>	
<i>Glaucia</i> , 3 to 5 ft.	
400 <i>Canaerti</i> , 3 to 5 ft.	
500 <i>Keteleeri</i> , 4 to 8 ft.	
650 <i>Burki</i> , 3 to 5 ft.	
300 <i>Chinensis Columnaris</i> , 4 to 6 ft.	
5000 <i>Juniperus Hetsi</i> , 18 to 30 ins.	
800 <i>Juniperus Hibernica</i> , 3 to 5 ft.	
300 <i>Juniperus Stricta</i> , 24 to 30 ins.	
400 <i>American Arborvitae</i> , 2 to 4 ft.	
200 <i>Cornus Florida</i> , 18 to 24 ins.	
200 <i>Cornus Florida</i> , 24 to 30 ins.	
100,000 <i>Amur River Privet</i> , 18 to 24 ins.	
and 2 to 3 ft., branched.	
100,000 <i>Rosa Multiflora</i> , seedlings.	

BEARING-AGE APPLE TREES

4 and 5-yr.-old.

Red Rome Beauty, Grimes Golden, McIntosh, Anoka, Black Winesap, Turkey, Double Red Jonathan, Yellow Transparent, Double Red Delicious, Yellow Delicious, Wealthy.

	Each	Each
	per 10	per 100
1 1/16 to 1-in. cal.	\$0.50	\$0.40
1 to 1 1/4-in. cal.	1.00	.75
1 1/4 to 1 1/2-in. cal.	1.50	1.25

WANT LIST: 10,000 shrubs in all varieties, lining-out size. Gum, Tulip, Hackberry, Pin Oak in 1 1/2 to 2 1/2-in. caliper.

Write for our Wholesale Price List.

EGYPTIAN NURSERY & LANDSCAPE CO.

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TREES SHRUBS EVERGREENS

Wholesale growers of a general assortment for the best landscape plantings.

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AMERICA'S BEST SOURCE FOR HARDY PLANTS

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OHIO

Wayside



Gardens

FOUND ALL-AMERICA GLADIOLUS SELECTIONS

At their annual convention at Cleveland, O., January 17, the North American Commercial Gladiolus Growers founded as an independent organization, the All-America Gladiolus Selections, as a means of raising the standard of gladiolus introductions and securing nation-wide publicity for the gladiolus industry. Ray Hastings, Harrisburg, Pa., founder of All-America Rose Selections and All-America (Seed) Selections, was present as a consultant at the founding of the new organization.

After exhaustive tests at 25 trial grounds, scattered throughout the United States and Canada, a maximum of three outstanding gladiolus seedlings will be selected each year, beginning in 1955, as All-America Gladiolus Selections.

Officers of the All-America Gladiolus Selections are the following: Elmer Gove, Vermont, president; Carl Fischer, Minnesota, vice-president; Winston Roberts, Idaho, treasurer, and Ralph Baerman, Virginia, executive secretary.

All American and Canadian hybridizers are invited to enter their best seedlings in the trial grounds. A fee of \$25 will be charged for each entry; 150 bulbs of each seedling, including No. 1's, 2's and 3's, must be sent by April 1 to the executive secretary, who will distribute them to the trial grounds under new numbers to conceal their origin.

No gladiolus seedlings originated abroad may be entered in the competition unless owned outright by an American firm. All inquiries regarding the new organization and regarding rules governing its trial grounds should be addressed to the executive secretary, Ralph Baerman, 5027 North 35th street, Arlington, Va.

All seedlings will be tested under number and graded by a uniform score card. Actual choice of the first winners will take place in January, 1954, at the annual meeting of the organization, which will take place immediately preceding the North American Commercial Gladiolus Growers' convention, scheduled at Baltimore, Md.

Seedlings averaging the highest rating at the 25 trial grounds during 1953 will be voted on by secret ballot, with no judge voting on his own originations or acquisitions. When the three top seedlings have been selected, public announcement will be withheld until January 1, 1955, to permit an additional year's propagation.



1-yr. Asparagus block in 3 1/2-ft. rows.

ASPARAGUS ROOTS

"We grow 'em by the million."

Our high-quality roots are backed by 25 years of growing experience. All roots are freshly dug for your order with the most modern digging equipment available to assure a complete undamaged root system. Roots are graded to conform with U. S. horticultural standards; 1-yr. weighing 60 lbs.; 2-yr., 120 lbs., and 3-yr., 250 lbs. per thousand.

MARY WASHINGTON

	100	1000
3-yr., Heavy	\$4.00	\$30.00
2-yr., No. 1	2.50	20.00
1-yr., No. 1	2.00	14.00

Special prices are available for large quantity lots. We also have a bulk price on ungraded roots in either 1 or 2-yr. size.

KRIEGER'S WHOLESALE NURSERY
Phone: Bridgman 22 Bridgman, Mich.

LINING-OUT STOCK

COTONEASTER divaricata	8 to 12 ins.	8c
VIBURNUM lentago	10 to 12 ins.	10c
VIBURNUM molle	8 to 12 ins.	9c
PHILADELPHUS virginialis	10 to 15 ins.	10c
PHILADELPHUS virginalis	15 to 18 ins.	12c
CERCIS canadensis	12 to 15 ins.	15c

HINSDALE NURSERIES, Inc.

7200 South Madison Road
HINSDALE, ILL.
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Send us your Surplus List.

GROWERS EXCHANGE, Inc.

P. O. Box 264 FARMINGTON, MICH.

40 Chinese Elm, 2 1/2 to 3 -in. cal.
130 Chinese Elm, 2 to 2 1/2-in. cal.
130 Chinese Elm, 1 1/2 to 2 -in. cal.
60 Blue Damson Plum,
2-yr., 11/16-in. cal.
45 Blue Damson Plum,
2-yr., 9/16-in. cal.
29 Blue Damson Plum,
2-yr., 7/16-in. cal.
2070 Montmorency Cherry,
1-yr., 18 to 24 ins.
840 Montmorency Cherry,
1-yr., 12 to 18 ins.
25,000 Cumberland Raspberry Tips
Mary Washington Asparagus,
1-yr., No. 1
Mahaleb Cherry, No. 2,
2/16 to 3/16-in. cal.
Mahaleb Cherry, No. 3,
just under 2/16-in. cal.
EVERGREENS, XXX, BAB
Juniperus Chinensis Pfitzeriana, 24 to 30
ins., 18 to 24 ins., 15 to 18 ins.
Juniperus Sabina, 24 to 30 ins., 18 to 24
ins., 15 to 18 ins.
Evergreens and shade trees to be picked
up at nursery. Other stock can be
shipped.
Send number wanted and we will
promptly quote.
MICHIGAN FRUIT GROWERS NURSERIES
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BENTON HARBOR, MICH.



Hardy Northern Grown Stock at WHOLESALE

JEWELL NURSERIES, Inc.

Write for Price List.

Box 457, LAKE CITY, MINN.

TULSA, OKLA., NOTES

The planting season opened early this year after an unusually warm winter with little freezing weather up to the middle of February. Some of the nurserymen have been able to plant during most of the winter. What Jack Frost may do before the end of March is, of course, anybody's guess. At present writing buds are dangerously large and tiny leaves are showing on some shrubs.

Demand for planting materials is unusually heavy because an enormous number of homes have been built, and there is a demand remaining from fall, which could not be filled then on account of the severe drought. At that time planting was practically halted save in those locations where extensive watering was possible. Surface moisture conditions are much better now, although the subsoil is said to be too dry. Generally speaking, the outlook is favorable.

Hiram C. Hunter, of the Hunter & Sons Nursery, and Jim Campbell, of the Mayfair Nursery, have returned from a buying trip in Arkansas.

Jim Sanseverino, of the Midwest Nursery Co., made a business trip to Texas early in February.

R. W. C.

PLANTINGS of ash trees in the recreation area at Lake Casa Blanca, near Laredo, Tex., were installed by the Riley Nursery & Tree Service, Laredo. The plantings were financed by the Laredo Garden Club as its contribution to the town's beautification project.

FRED HOUSE, owner of Fred's Ornamental Nursery, near Tyler, Tex., was the subject of a recent article in the Tyler Telegraph. Mr. House has been in the nursery business for 27 years.

TEPLEY NURSERIES, Corona, Calif., recently completed a landscaping job around the Manhattan Beach, Calif., armory building.

LILACS

1-year Buds on California Privet.

12 to 24 ins. \$45.00 per 100

Charles Joly, double, magenta.

Ellen Willmott, double, white.

Alphonse Lavalley, double, lilac.

6 to 12 ins. \$25.00 per 100

Mme. Anton Buchner, double, pink.

Ludwig Spaeth, single, deep purple.

Congo, single, magenta.

All single stem, about 3/4-in. diameter on the larger size; the smaller ones average about 1/2-in. If planted below the collar, they will soon be on their own roots. As far as we know, they are true to name. The stock plants, which came from Upton's Nursery, Detroit, have all bloomed.

NEWPORT NURSERY COMPANY

NEWPORT, MICHIGAN

JUNIPERUS HETZI

3 times transplanted—sheared 3 times.

Full, heavy specimens, B&B.

	10-rate	100-rate	1,000-rate
	Each	Each	Each
24 to 30 ins.	\$4.00	\$3.75	\$3.50
30 to 36 ins.	4.50	4.25	4.00

We invite your inspection and correspondence.

CHARLES KLEHM & SON

Algonquin and State Roads

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**FLOWERING CRABS
ORNAMENTAL TREES
and SHRUBS**

Fruit Trees and Berries
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**Complete Selection
of Fine Roses**

Write for our Free Wholesale Catalog

Andrews

NURSERY COMPANY

SINCE 1872

FARIBAULT, MINN.

EXTRA SPECIAL

Cotoneaster Acutifolia	Per 1000
18 to 24 ins., tpl., well-br.	\$220.00
2 to 3 ft., tpl., well-br.	350.00
Caragana Arborescens	
2 to 3 ft., 2-yr. sdgls.	42.00
18 to 24 ins., 2-yr. sdgls.	34.00
Chadwick's Buckthorn	
2 to 3 ft., tpl., well-br.	200.00
3 to 4 ft., tpl., well-br.	250.00
Russian Olive	
2 to 3 ft.	60.00

SUMMIT NURSERIES
STILLWATER, MINN.

NORTHERN-GROWN STOCK

Evergreen Liners
Bleeding Hearts
Ornamental Shrubs
Fruit Trees
French Lilacs

Philadelphus Minnesota Snowflake
(Plant Patent No. 538).

Send for list.

J. V. BAILEY NURSERIES

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SEND YOUR SURPLUS LIST OF

Evergreens • Shrubs • Shade Trees
Flowering Trees • Fruit Trees

to:

THE PONTIAC NURSERY CO.
ROMEO, MICHIGAN

VIRGINIA MEETING

[Continued from page 9]

and publicity and the coming national convention at New York.

Mr. Siebenthaler mentioned a booklet published by the better business bureau of Dallas, Tex., which gives details on what constitutes good nursery stock advertising, based on A. A. N. recommendations. Mr. Siebenthaler expressed the hope that other organizations throughout the country would circulate similar material.

In the field of group insurance, Mr. Siebenthaler stated that, as of the time of the Virginia meeting, there were over 700 members in the A. A. N. group insurance plan with over \$2,000,000 in insurance in force. He mentioned that insurance benefits in cases of poliomyelitis will be added during 1953.

Meeting with Plant Board

The vice-president detailed a joint meeting held in January by the quarantine committee of the A. A. N. and the National Plant Board. In a previous separate meeting, the plant board had approved a system of foreign inspection of nursery stock, and had also favored the importation of plants in peat moss balls because of the increased opportunity for plant survival when packaged in this manner. The N. P. B. had also approved of the importation, inspection free, of plant packages valued at less than \$10.

Mr. Siebenthaler made it clear that the American Association of Nurserymen does not approve of any of these principles because of the danger of importation of insects and diseases. The A. A. N. believes that the prevention of the importation of insects and diseases should be the primary consideration when dealing with foreign nursery stock. The National Plant Board, as pointed out above, had utilized the principle of plant survival as the basis for at least one of its decisions.

In support of its case, the A. A. N. has submitted a report by Dr. P. P. Pirone, pathologist of the New York Botanic Garden, to the bureau of entomology and plant quarantine, United States Department of Agriculture. This report, in opposition to the importation of plant material in peat moss balls, states, among other things, that peat moss is not an unfavorable medium for fungi and nematodes.

In the field of market development and publicity, Mr. Siebenthaler noted an interest in an expanded public relations program. This inter-

CARL RAY CO.

Box 205

ST. MATTHEWS, KY.

SPECIMEN LANDSCAPE MATERIALS

	Each
Taxus Cuspidata	
500 18 to 24 ins.	\$ 4.50
500 24 to 30 ins.	6.50
50 4 to 5 ft.	28.50
Taxus Hatfieldi, Upright	
500 18 to 24 ins.	4.50
200 24 to 30 ins.	6.50
50 4 to 5 ft.	28.50
Taxus Browni	
300 18 to 24 ins.	4.50
100 24 to 30 ins.	6.50
Taxus Hicksi	
250 18 to 24 ins.	4.50
100 24 to 30 ins.	6.50
50 30 to 36 ins.	8.50
Juniperus Canadensis	
200 4 to 5 ft.	5.50
150 5 to 6 ft.	6.50
Juniperus Glauca	
100 4 to 5 ft.	5.50
Magnolia Grandiflora	
200 3 to 4 ft.	9.00
200 4 to 5 ft.	12.50
50 5 to 6 ft.	16.00
White Pine	
25 10 to 12 ft.	50.00

F.O.B. nursery. Truck or car load lots only.

HOBBS
Spring, 1953

Montmorency Cherry, 1-yr., 18 to 24 ins.
5/16-in., 7/16-in., 9/16-in. and
11/16-in. caliper. Many trees in
11/16-in. grade will run 3/4-in.

Montmorency Cherry, 2 and 3-yr.,
heavy.
XXX grade, heavy
XX grade, heavy
11/16-in. grade
9/16-in. grade

Most of the grades 11/16-in. and up
will run 5 to 7 ft. in height. Fine for
retail trade.

C. M. HOBBS & SONS, Inc.

BRIDGEPORT, IND.

Phone Indianapolis, Belmont 1812

LINERS

Juniperus Glauca Hetzi

	Per 100	Per 1000
6 to 9 ins.	\$50.00	\$450.00
9 to 12 ins.	60.00	550.00

Arborvitae, Dark Green

9 to 12 ins.	45.00	400.00
--------------	-------	--------

4-yr. plants, twice transplanted, 2 yrs.
in open field beds.

No packing charge.



Operated By
Holton & Hunkel Co.
MILWAUKEE, WISCONSIN
P. O. Box 1747

NEW PUSSY WILLOW—SILVER CLAW

(Mutabilis Selection)
Excellent low-growing, extremely early-flowering
variety. Catkins are long and slightly curved
around stem when fully developed. Ideal florists'
variety.

\$1.00 each.

BEARDSLEE NURSERY,

PENRY, OHIO

JUNIPERUS HETZI GLAUCA

1-yr., R.C.	10c each
2-yr., 6 to 8 ins.	20c each
2-yr., 8 to 12 ins.	25c each

BALCOM NURSERY KOKOMO, IND.

2000	Heavy Taxus	Hicksi	30 to 36 ins. high, B&B .. \$	6.50
			36 to 42 ins. high, B&B ..	8.50
			42 to 48 ins. high, B&B ..	10.50
2000	Heavy Taxus	Hatfieldi	24 to 30 ins. high, B&B ..	5.25
			30 to 36 ins. high, B&B ..	6.50

OREGON NURSERY

ROSSFORD, OHIO

Nursery on Oregon Rd.

Rossford is near Toledo

est, he said, is based on the premise that the nursery industry must be prepared to maintain and enhance its position in the economy in the case of a business recession. Speaking further on public relations, Mr. Siebenthaler cited the now famous "Plant Ohio" program, which is setting a fast pace in the matter of securing public and official sponsorship of planting activities.

The Monday afternoon session opened with a film, "Master of the Soil," sponsored by the Esso Standard Oil Co. The film discussed recent advances in agriculture, emphasizing particularly the factors of soil improvement and erosion control.

Dried Arrangements

After the film, the Virginia nurserymen moved to the roof garden of the hotel, where natural light was available for a demonstration of dried arrangements, by Vena Walker, of Exmore, Va. Miss Walker exhibited a series of beautiful and varied arrangements, using dried material exclusively. Of particular interest was the use that she had made of grasses and weeds which grow in abundance along the eastern shore area of Virginia.

She explained to her audience, composed not only of nurserymen but also of many women who had been invited for the occasion, some of the principles involved in the production of dried arrangements. Among the points she emphasized was that flowers for dried arrangements should be cut before they are in full bloom. They should then be dried, hanging upside down, in a dark closet or similar location. In her own home, she uses the attic for this purpose. As to the design of the arrangements themselves, she stated that the basic principles of fresh flower arrangement also apply generally to dried arrangements.

After Miss Walker's talk, the nurserymen remained for an address on "Customer Relations," by Frederick Heutte, superintendent of parks of Norfolk, Va. Mr. Heutte paid high tribute to the nursery in-

Announcement

NAPERVILLE NURSERIES, INC., Naperville, Illinois, will terminate its business at the close of the Spring, 1953, digging season. All nursery stock and equipment must be sold. Write or phone for list of special offerings.

NAPERVILLE NURSERIES, INC.

Naperville, Ill.

SEEDLING CHRISTMAS TREES

SCOTCH PINE — the fastest grower.
2-0, 2 to 6 ins., **\$20.00** per 1000

AUSTRIAN PINE — the quality tree.
2-0, 2 to 6 ins., **\$25.00** per 1000

Cash with order, free packing—or 25% cash, balance C.O.D.
10% discount on 50,000 or more.

ANDERSEN'S EVERGREEN NURSERIES

SCOTTVILLE, MICH.

COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade
Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.

ONARGA, ILL.



Wholesale growers of the best
Ornamental Evergreens
Deciduous Trees
Shrubs and Roses
Write for our current trade list.

THE KALLAY BROTHERS CO.

Painesville, Ohio

HARDY PLANTS Bulbs and Shrubs

"America's Finest"

Write for Trade List

Springbrook Gardens

MENTOR, OHIO

TEUCRIUM CHAMAEDRYS

Well-rooted cuttings.

\$5.00 per 100

\$45.00 per 1000

BEARDSLEE NURSERY

PERRY, O.

dustry, stating that nurserymen were in a position to mold a new era in America, both economically and socially. To accomplish this, he said, the nurserymen will have to make even stronger efforts to acquaint the buying public with the commodities they handle.

The public is becoming plant-conscious, he continued, and wants to know about plants. The public does not mind paying reasonable prices for plant materials when it knows the trouble and expense involved in producing salable plants. He cited the example of one nurseryman who takes all of his customers through his propagating houses and lining-out beds to show them plant production at first hand.

Pointing out that there are more books and magazines on horticultural subjects than ever before, expressing all sorts of opinions, Mr. Heutte stated that it is the nurserymen who should sift and interpret the mass of horticultural information now available and pass on the usable material to the public.

The nurseryman has a responsibility to sell to a buyer only those plants which fit his needs. The public should be educated as to the merits and demerits of the various plants and should never be sold a plant which is incapable of fulfilling the function which the buyer has in mind. He suggested that nurserymen include in their salesyard displays examples of both right and wrong ways of handling certain plant materials.

Digressing slightly, Mr. Heutte commented on the current battle being waged against advertising billboards along highways. Granting that many billboards are ugly, Mr. Heutte expressed the further belief that they have become a necessary component of the American advertising scheme. The answer, therefore, he said, was to retain the billboards, at least in certain places, and to arrange plantings around them to make them attractive. Nurserymen, he said, should take the initiative in a project of this kind.

Current Nursery Problems

Tuesday's sessions opened with a general discussion under the title "Current Nursery Problems," with A. J. Shoosmith, Southside Nurseries, Richmond, as moderator.

Mr. Shoosmith led off the discussion by describing the successful efforts of Richmond's nurseries to beat a plan by the city of Richmond to levy a \$300 contractors' license fee on nurseries doing business in

[Continued on page 56]

LINING-OUT STOCK

Write for our illustrated list

	Per 100	Per 1000	Per 10,000
Colorado Blue Spruce, 3-2, 6 to 9 ins.	\$16.00	\$150.00	.....
Colorado Blue Spruce, 3-2, 4 to 6 ins.	10.00	80.00	.....
Colorado Blue Spruce, 3-0, 4 to 6 ins.	6.00	32.00	\$300.00
Colorado Blue Spruce, 3-0, 2 to 4 ins.	4.00	20.00	180.00
White Pine, 2-3, 6 to 12 ins.	15.00	.....	.....
Norway Pine, 2-0, 2 to 4 ins.	4.00	18.00	.....
Banks Pine, 3-0, 8 to 16 ins.	6.00	25.00	.....
White Birch, 2-2, 10 to 18 ins.	10.00	.....	.....
White Birch, 2-0, 8 to 16 ins.	7.50	40.00	.....

RIGA SCOTCH PINE

Best type for growing Christmas trees.

	Per 100	Per 1000	Per 1000 in 10,000 lots	Per 1000 in 100,000 lots
Scotch Pine, 2-0, 3 1/2 to 8 ins.	\$6.00	\$25.00	\$23.50	\$22.00
Scotch Pine, 2-0, 2 to 3 1/2 ins.	4.00	16.00	15.00	14.00

Samples on request in digging season.

TERMS: Cash with order please; or 25 per cent deposit, balance before shipment. 25 at 100 rate, 250 at 1000 rate; all seedlings in multiples of 50, all transplants in multiples of 10.

Minimum order \$10.00. Packing at materials cost; charges billed when shipped.

MATTHEWS NURSERY

Telephone 123 or 732

HARBOR SPRINGS, MICH.

LAKE'S

SHENANDOAH NURSERIES

Shenandoah, Iowa

Wholesale growers of
a fine assortment of

GENERAL NURSERY STOCK

Your inquiries will be appreciated.

DO YOU NEED...

Flowering Shrubs
Shade Trees
Evergreens
Lining-out stock
Phlox or Peonies
Apples or Plums
Perennials

If so, please write for copy of our new wholesale price list.

SHERMAN NURSERY CO.
CHARLES CITY, IOWA

POTTED TAXUS

We offer the following surplus above our own requirements. Plants are in 2 1/4-inch pots in cold frames.

ANDERSONI, 3-yr., 30c.
CUSPIDATA, 2-yr., 25c; 3-yr., 30c.
HATFIELDI, 2-yr., 25c; 3-yr., 30c.
HICKSI, 2-yr., 25c; 3-yr., 30c.
MEDIA No. 8, 1-yr., 20c; 2-yr., 25c.
MEDIA No. 6, 2-yr., 25c.
SIEBOLDI, 3-yr., 30c.
THAYERAE, 2-yr., 25c; 3-yr., 30c.

Cash with order, packing free. Otherwise, packing at cost. Send 25% cash with C.O.D. orders.

EAGLE CREEK NURSERY
NEW AUGUSTA, IND.

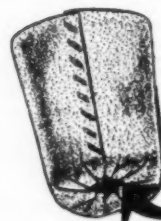
BURTON'S
HEADQUARTERS FOR
EVERGREEN GRAFTS, TRANSPLANTED
EVERGREENS, SHRUB LINERS.
Write!
RARE ITEMS YOU DO NOT
FIND IN MOST LISTS!
HILLTOP NURSERIES
EAST TOWN, OHIO

Only Cloverset MAKES TE

Better because . . .



This is an actual unretouched photograph of various plants and shrubs that have been in Cloverset pots for seven months.



THIS EXCLUSIVE FEATURE insures healthy, growing plants. The bottom tabs on all Cloverset Pots seal in place after first watering, leaving correct opening for proper drainage.

CLOVERSET HELPS YOU BUILD A BIGGER CASH-AND-CARRY BUSINESS

Being practical nurserymen ourselves, we know the problems that face the modern nursery and are happy to pass along information that will be of value to you. New ideas and practical suggestions are sent to our pot users frequently in our bulletin, "Cloverset Pot Shots," and we are happy to answer all correspondence about handling and selling potted plants. In addition we provide the following material:

NEWSPAPER AD MATS for attractive and forceful business-getting ads in your local paper . . .

"CULTURAL DIRECTIONS" FOLDERS such as we give our own customers when they purchase Cloverset potted plants . . .

FREE POTTING GUIDE giving the whole story of how we handle our potting operations and sell our plants.

FREE ILLUSTRATED WALL CHARTS for potting-shed workers, giving full instructions for successful potting, handling and displaying potted plants.

(SEE COUPON AT BOTTOM OF OPPOSITE PAGE)



*Put Your Stock in
Cloverset Pots!*

*PATENT NUMBER 2073695

ORDER CLOVERSET POTS FROM ANY OF THE FOLLOWING:

ILLINOIS

HOME NURSERY GREENHOUSES, INC.
Edwardsville, Ill.
VAUGHAN'S SEED CO.
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ERNST, INC.
P. O. Box 648, Muncie, Ind.
ERNST NURSERIES
Eaton, Ohio
HILLSDALE LANDSCAPE CO.
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KANSAS

WILLIS NURSERY CO.
Ottawa, Kan.
WICHITA STONEWARE CO.
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GROWERS EXCHANGE, INC.
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RUEDLINGER NURSERY
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A. H. HUMMERT SEED CO.
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CLOVERSET FLOWER FARM
105th & Wornall Rd., Kansas City 5, Mo.

NEW JERSEY

N. J. FARM SUPPLY COOP.
449 Market St., East Paterson, N. J.

NEW JERSEY, cont.

MOORESTOWN GARDENS, INC.
Moorestown, Burlington County, N. J.
SOMERSET NURSERY
P. O. Box 608, New Brunswick, N. J.

NEW YORK

JACKSON & PERKINS CO.
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BURWELL NURSERIES CO.
4060 E. Main St., Columbus 13, Ohio

OREGON

PORTLAND WHOLESALE NURSERY CO.
306 S.E. 12th St., Portland

(Consult your local distributor for prices, which will be F.O.B. his location)
SOME TERRITORIES OPEN — INQUIRIES INVITED

THE BETTER HEAVYWEIGHT POT

...THEY KEEP THE ROOTS SAFELY INSIDE THE POT!

Every nurseryman knows that damaged feeder roots mean inferior plants—and that healthy roots safely embedded in good fertile soil produce lively plants that are sure to thrive. That's why we strongly recommend the heavyweight Cloverset pot for ALL stock (except that which you know will have an immediate turnover) because only the heavy pot will surely keep the roots contained through potting, standing in frames or display gardens and through setting-out at home by possibly inexperienced hands. These Cloverset pots are tough enough to do the job RIGHT but still easy for the customer to remove, and plants will continue to thrive even when left in the pots for an indefinite time. We know from long experience that, with our heavyweight pots, you can safely GUARANTEE your stock to grow.



ACTUAL UNRETOUCHED PHOTOGRAPH of a Hardy Chrysanthemum which has been in its pot for a full 7 months.

WE ALSO MAKE A LIGHTWEIGHT POT

especially for quick-sale merchandise, priced as low as twenty-five dollars a thousand. Made of the same type material as the heavyweight pot, but not quite as thick, it still provides all the other features of the original Cloverset pot and is an excellent choice for stock which has a quick turnover.

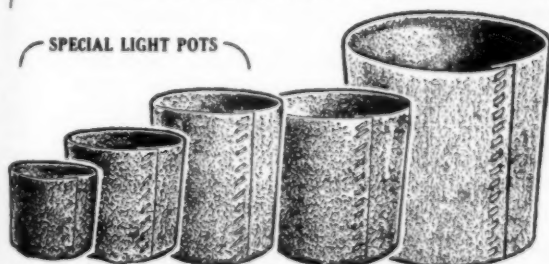
CLOVERSET POT PRICES F. O. B. KANSAS CITY, MO.

TYPE	Height	Top Diam.	Nearest Clay Pot	Approx. Weight	PRICE		
STANDARD HEAVY	(Packed 100 in carton; 300 or more at 1000 price)			Per 100	Per 100	Per 1000	
No. 0	5 1/2 ins.	5 ins.	6 ins.	30 lbs.	\$3.25	\$30.00	
No. 1	6 1/2 ins.	6 ins.	7 ins.	50 lbs.	4.50	42.50	
No. 2	9 1/2 ins.	7 ins.	8 ins.	74 lbs.	5.00	47.50	
No. 3	9 ins.	8 ins.	9 ins.	82 lbs.	5.50	52.50	
No. 4	(Packed 25 in carton)			Per 100	Per 25	Per 50	Per 75
	13 ins.	12 ins.		130 lbs.	\$7.00	\$13.25	\$19.75
					Per 100	Per 1000	
					\$23.75	\$210.00	
SPECIAL LIGHT	(Packed 200 in carton)			Per 200	Per 1000		
No. 0	5 1/2 ins.	5 ins.	6 ins.	25 lbs.	\$5.50		
No. 1	6 1/2 ins.	6 ins.	7 ins.	40 lbs.	7.50		
No. 2	9 1/2 ins.	7 ins.	8 ins.	60 lbs.	8.50		

BETTER POTS— BETTER PLANTS— BETTER PROFITS!

STANDARD HEAVY POTS

SPECIAL LIGHT POTS



No. 0 For greenhouse and perennials
No. 1 For larger perennials
No. 2 For roses and shrubs
No. 3 For large shrubs and transplanting
No. 4 For large shrubs, fruit trees, evergreens.



Cloverset Flower Farm, Dept. A
105th & Wornall Rd., Kansas City 5, Mo.

ALL SENT
POSTPAID

Please send the following: I enclose _____ c.

- _____ Sample set of 8 Cloverset Pots @ 50c. (Limit one)
- _____ Free illustrated wall chart.
- _____ Free potting guide, "How to Sell Plants in Cloverset Pots for Profits."
- _____ Free folder about newspaper ad mats.
- _____ Information about "Cultural Directions" folders.

NAME _____

FIRM _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

LINING-OUT STOCK

We have a surplus of 100,000 liners which are in excellent shape for spring planting. These are available in the below-listed varieties, and we can supply in 2 1/4-in. pots and bed-grown with excellent root system.

Abelia Grandiflora
Acuba Japonica
Barberry Julianae
Elaeagnus Pungens
Ligustrum Lucidum
Osmanthus Fortunei

Ilex Convexa
Ilex Cornuta Burfordi
Ilex Glabra
Ilex Rotundifolia

Pfitzer Juniper

Arborvitae, American
Arborvitae, American Dark
Arborvitae, Plicata
Arborvitae, Pyramidal
Arborvitae, Siberian

Write us your needs and we will send you our best quotations by return mail.

W. T. HOOD & CO., INC.

R.F.D. 4, BOX 477

RICHMOND, VA.

Robert W. Lewis, General Manager

CHINESE CHESTNUT TREES

Seedlings

Grafted Trees

We offer only the Peter Liu strain of Chinese Chestnut trees which produced the Nanking, Meiling and Kuling varieties. We give you the advantage in price of our long growing season and cheap labor in addition to the proven quality of our trees. Your inquiries are invited.

LEELAND FARMS

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We Offer

OUR USUAL SUPPLY OF NURSERY STOCK

Apple	Peach	Pear
Plum	Cherry	Apricot
Figs	Grapes	Pecans

June Bud Peach
 Japanese Persimmon
 Ornamental and Shade Trees

Send us your want list;
 write for prices.

COMMERCIAL NURSERY CO.

Nicholson Bros. DECHERD, TENN.

Wight



NURSERIES

CAIRO, GEORGIA • SINCE 1887

"WIGHT GROWN MEANS GROWN RIGHT"

MORNING STAR NURSERY

Rives, Tennessee

Wholesale Growers

Evergreens, Trees

Deciduous Shrubs, Roses

Send us your want list

city. Mr. Shoosmith said that the court ruling in the case held that nurserymen are growing plant material, and are not to be considered contractors. Mr. Shoosmith strongly approved the decision and considered it important in that it should set a precedent that should discourage other cities from attempting to levy similar fees.

Changing the subject to merchandising, Mr. Shoosmith told of the need for a method of developing in the public mind a desire for nursery products, and of instructing the public on how to use plants. The "Plant Virginia" program is the answer to the problem, he added. E. M. Quillen, Waynesboro Nurseries, Waynesboro, then reviewed again the establishment of the Plant Virginia Association.

Mr. Shoosmith continued by stating that a trial of the planting program in two Virginia counties had been successful and offered encouragement for spreading the program throughout the state. He said that he felt a paid secretary eventually would be needed to keep the program in motion. It is expected and desired that other groups in the horticulture field will contribute time and money to the Plant Virginia Association, but Mr. Shoosmith expressed the hope that the nurserymen themselves will always be able to exercise some degree of control over it.

Prof. A. G. Smith then took the floor and presented some interesting figures from the federal census bureau to show that the nonfarm population was becoming more and more dominant in the state. Population increases are being shown in urban and in rural nonfarm areas at the expense of rural farm areas. This trend, he said, will serve to de-emphasize the farm and will place more emphasis upon agricultural activities involved in the planting of homes, factories, etc. He also stated that home ownership is increasing and the exodus of people from congested city areas to the suburbs is proceeding at a considerable rate.

The morning session concluded with an extensive travel film in full color, presented by Patsy Donofrio, of Carroll Gardens, Westminster, Md. Mr. Donofrio's films took the audience from coast to coast.

Associate Memberships

At the business meeting, in addition to the election of officers, the association voted to limit out-of-state nurserymen to associate membership in the Virginia Nurserymen's Association. The effect of this resolution

will be to prevent out-of-state members from voting on measures which come up for consideration at the Virginia meetings.

E. M. Quillen expressed the opinion that there should be more funds appropriated in the Virginia Polytechnic Institute budget for ornamental horticulture. He urged the nurserymen to organize a case for this increased appropriation to be presented when the next budget for the institute is being prepared. He suggested that florists and members of garden clubs in the state be asked to join in the presentation of the case.

A. S. Gresham, Gresham's Nursery, Richmond, proposed that the president of the association, rather than the retiring president, be the chairman of the executive committee, with the retiring president retained as a member of the committee. He declared that this arrangement would serve the purpose of placing all of the responsibility in the hands of the president, instead of dividing it between the president and the chairman of the executive committee, as is now the case. Since the proposal would require a change in the bylaws and such changes must be posted for 24 hours before being voted upon (the business meeting was held on the last day), the suggestion was set aside for action at next year's business meeting.

Moultrie H. Lanier, Colonial Farms, Richmond, then proposed that the annual dues of the association be increased from \$10 to \$20. Although this proposal met with general acceptance, it, too, would require a change in the bylaws and was therefore also set aside for presentation at the next meeting.

In view of the fact that Virginia nurserymen were guests of the North Carolina Nurserymen's Association at the 1952 summer meeting, it was voted to invite the North Carolina nurserymen to meet in the state of Virginia for a joint session this coming summer. Several locations were under consideration for the meeting, but none was decided upon at this time.

In a final action, the association passed a resolution expressing regret that Prof. G. T. French, Richmond, an honorary member of the association, was unable to attend the meeting because of illness.

Elect A. A. N. Delegates

At a meeting of chapter 17 of the American Association of Nurserymen, held Tuesday morning, W. B. Higgs, Vadma Nursery Agency, Fairfax, and E. M. Quillen were



SUPER JUNIPERS

5-year-old, often and heavily sheared stock.

Grown from best grafted liners.

JUNIPERUS VIRGINIANA CANAERTI, 36 ins., \$3.00

HILLSPIRE JUNIPER, 36 ins., \$3.00

HILL'S DUNDEE JUNIPER, 36 ins., \$3.00

COLUMNAR BLUE JUNIPER, 48 ins., \$4.00; 60 ins., \$5.00

JUNIPERUS VIRGINIANA GLAUCA, 36 ins., \$3.00

Since January 1, more than half of the field
has been sold.

BETTER BUY NOW!

VERHALEN NURSERY
Company

SCOTTSVILLE • 12140 HARRY HINES BLVD.
TEXAS • DALLAS, TEXAS

Your Profits Grow in Verhalen Plants

SNEED NURSERY COMPANY

Specimen Evergreens

Ornamental Shrubs and Trees

Quality Liners

Juniper Grafts

P. O. Box 798

OKLAHOMA CITY, OKLA.

EVERGREENS FOR LANDSCAPING AND SALES LOTS

In Truck or Car Loads

GRAFTED JUNIPERS, on Virginiana understocks, 3 yrs., have been sheared:

Juniperus Chinensis Columnaris, Blue (Blue Columnar)

Each	
3 to 4 ft.	\$4.50
30 to 36 ins.	3.50

Juniperus Chinensis Columnaris Viridis (Green Columnar)

3 to 4 ft.	3.50
30 to 36 ins.	3.00

Juniperus Chinensis Masculina

3 to 4 ft.	3.50
30 to 36 ins.	3.00

Juniperus Virginiana Burki (Burk Red Cedar)

5 to 6 ft.	6.00
4 to 5 ft.	5.00
3 to 4 ft.	4.00
30 to 36 ins.	3.50

Juniperus Virginiana Canaerti (Canaert Red Cedar)

4 to 5 ft.	5.00
3 to 4 ft.	4.00
30 to 36 ins.	3.50

Juniperus Virginiana Hilli (Hill's Dundee)

3 to 4 ft.	4.00
30 to 36 ins.	3.50

Juniperus Virginiana Glauca (Silver Red Cedar)

4 to 5 ft.	5.00
3 to 4 ft.	4.00
30 to 36 ins.	3.50

Juniperus Virginiana Keteleeri (Keteleer Red Cedar)

5 to 6 ft.	5.50
4 to 5 ft.	4.50
3 to 4 ft.	4.00
30 to 36 ins.	3.00

MISCELLANEOUS:

Cedrus Deodara (Deodar Cedar)

4 to 5 ft.	3.50
3 to 4 ft.	2.50
2 to 3 ft.	2.00

Nandina Domestica (Nandina)

Bushy, well-berried.	
3 1/2 to 4 ft.	2.75
3 to 3 1/2 ft.	2.25
30 to 36 ins.	1.75
24 to 30 ins.	1.50

Pyracantha Lalandi (Laland Firethorn)

Well-branched.	
6 to 7 ft.	3.50
5 to 6 ft.	3.00
4 to 5 ft.	2.50
3 to 4 ft.	2.00

JUNIPERS, ARBORVITAE AND

HEMLOCKS, on own roots:

Juniperus Chinensis Pfitzeriana (Pfitzer Juniper)

Each	
24 to 30 ins.	\$2.50
18 to 24 ins.	2.00

Juniperus Chinensis Pfitzeriana Glauca (Blue Pfitzer Juniper)

30 to 36 ins.	3.50
24 to 30 ins.	2.75
18 to 24 ins.	2.25

Juniperus Communis Ashfordi (Ashford Juniper)

5 to 6 ft.	3.50
4 to 5 ft.	3.00
3 to 4 ft.	2.50
30 to 36 ins.	2.00
24 to 30 ins.	1.50

Juniperus Communis Hibernica (Irish Juniper)

5 to 6 ft.	2.75
4 to 5 ft.	2.00
3 to 4 ft.	1.50

Juniperus Communis Kiyono (Columnar Form of Communis)

6 to 8 ft.	3.50
5 to 6 ft.	3.00
4 to 5 ft.	2.50
3 to 4 ft.	2.00

Juniperus Excelsa (Greek Juniper)

3 to 3 1/2 ft.	3.00
30 to 36 ins.	2.50
24 to 30 ins.	2.00
18 to 24 ins.	1.50

Thuja Orientalis Aurea Nana (Berckmans Golden Arborvitae)

24 to 30 ins.	2.00
18 to 24 ins.	1.50
15 to 18 ins.	1.25

Thuja Orientalis Bakeri, *Thuja Orientalis Excelsa*

Full and well-formed.	
5 to 6 ft.	3.75
4 to 5 ft.	2.75
3 to 4 ft.	2.00
30 to 36 ins.	1.50

Tsuga Canadensis (Canada Hemlock)

Sheared and compact.	
3 to 3 1/2 ft.	4.00
2 1/2 to 3 ft.	3.50

Add 10% for less than truck or car load—crating extra, at cost. Terms: cash, except to those who have established credit with us.

Send for list of liners bedded and from 2 1/4-in. pots.

FRASER NURSERIES, INC.

P. O. Box 465

Birmingham 1, Ala.



ROSES MEAN PROFITS!
CO-OPERATIVE
MEANS
PLUS PROFITS!

ROSES are the American Family's most favored garden plant.

ROSES, in an average year, sell upward to 20,000,000 bushes.

If you haven't sold roses before, we'd like you to let us prove what they can do for you as a change-of-pace, traffic building, high-profit promotion.

CO-OPERATIVE ROSE GROWERS
 P. O. Box 808 Tyler, Texas

Broad-leaved

Coniferous Evergreens

Deciduous Magnolias

Write for complete price list.

T. G. OWEN & SON, INC.
 Columbus Mississippi

ected delegates to the July convention of the A. A. N. J. D. Yeatts, Yeatts Nursery, Martinsville, and J. R. Richardson were elected as alternate delegates.

Social Events

Social events were, as always, a highlight of the program. This phase of the meeting began Sunday evening, with a fellowship hour and dinner. Oysters and other refreshments were served in addition to the traditional Virginia ham dinner. Following the dinner, Dr. Wesley P. Judkins, Virginia Polytechnic Institute, presented a fascinating series of Kodachrome slides on the flowering and fruiting characteristics of common nursery plants. Dr. Judkins' lucid explanation of plant anatomy was most enlightening.

Monday evening, the past presidents' banquet was held, followed by music and dancing. This colorful event featured the introduction of past presidents of the association. During the evening, Sam Tankard, Tankard Nurseries, Exmore, presented the Virginia Nurserymen's Association award of merit for the past year to Moultrie H. Lanier. The association extended an honorary membership, its fourth, to Frederick Heutte, Norfolk park superintendent, for his efforts in behalf of horticulture in the state of Virginia.

Exhibits

Two series of exhibits, commercial and educational, were set up in the hotel. Among the commercial exhibitors were the following:

American Agricultural Chemical Co., Alexandria, Va.; Southside Nurseries, Richmond; Watkins Nursery, Midlothian, Va.; T. W. Wood & Sons, Richmond; Laird's Nurseries, Richmond; John Bean Division, Food Machinery & Chemical Corp., Lansing, Mich.; Waynesboro Nurseries, Waynesboro; W. T. Hood & Co., Richmond; Menno S. Mennes Nurseries, North Tonawanda, N. Y.; Premier Peat Moss Corp., New York, N. Y.; Gresham's Nursery, Richmond; Garden Supply Sales Corp., New York, N. Y.

Educational exhibitors included the Virginia department of agriculture, Virginia commission of game and inland fisheries, Virginia department of highways, Richmond city park department and Virginia forest service.

MR. AND MRS. JOHN W. KELLY, Kelly Bros. Nurseries, Inc., Dansville, N. Y., have announced the birth, on February 15, of a daughter weighing eight pounds, five ounces.

**LARGE,
FIELD-GROWN**

AZALEAS

**FORMOSA AND
PRESIDENT CLAY**

AND

**LARGE,
LANDSCAPING**

CAMELLIAS

**SMALLER
SIZES**

ALSO

GARDENIAS AND SASANQUAS

ELMORE NURSERY, INC.

BOLIVIA, N. C.

TWENTY MILES SOUTH OF WILMINGTON, N. C. ON U. S. HWY. No. 17

WASHINGTON MEETING

[Continued from page 10]

lem of the nursery in the hands of a bank. The bank in turn would reimburse the nursery for sales and handle collections for a small charge.

The problem of keeping account books balanced was treated by Joseph McFarland, an accountant with the Spokane firm of Siegel & McFarland. He explained a simple way of keeping books for a small business which would call for only a few minutes of work each day. However, he stressed the need for accurate entries and a constant effort to keep everyday records. If a daily record is accurately kept a nurseryman with a small business will find it necessary to get professional assistance only two or three times each year, he said. Mr. McFarland's talk was the last of the morning.

In the afternoon, President Leamer presided over a discussion of proposed amendments to quarantine 37. During the debate many points were brought out regarding this proposed change, which would allow for freer entry of foreign plant material. As a result, the committee was appointed to draft a letter showing the group's feelings on the subject.

Following this was a talk, which

EVERGREENS

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Baker Arborvitae
Berckmans Arborvitae
Bonita Arborvitae
Excelsa Arborvitae
Newark Arborvitae
American Arborvitae (Sheared)
American Pyramidal Arborvitae
American Globe Arborvitae
Cedrus Deodara
Juniper, Irish
Juniperus Andorra

Juniperus Excelsa Stricta
Juniperus Fastigiata
Juniperus Pfitzeriana
Juniperus Pfitzeriana Compacta
Juniperus Pfitzeriana Nana
Juniperus Sabina von Ehron
Juniperus Virginiana Canaerti
Juniperus Virginiana Dundee
Juniperus Virginiana Glauca
Pinus Nigra

BROAD-LEAVED

Elaeagnus
Euonymus Patens
Ilex Opaca East Palatka

Ilex Vomitoria
Nandina Domestica
Photinia Serrulata

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	6 to 12 ins.	12 to 18 ins.
MAPLE TREES		
Silver Maple	\$10.00	\$15.00
Norway Maple	40.00	75.00
Native Red Maple	20.00	25.00
Sugar Maple	20.00	25.00
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Tulip Poplar Tree	10.00	15.00
Lombardy Poplars	20.00	25.00
Chinese Lombardy Poplar	25.00	35.00
MIMOSA—SILK TREE		
Mimosa	25.00	35.00
ELM TREE		
American Elm	10.00	15.00
Chinese Elm	10.00	15.00

NANDINA DOMESTICA

1-yr. seedlings, ready for potting, 2 to 4 ins.	\$ 35.00 per 1000
2 to 4 ins.	300.00 per 10,000

FLOWERING SHRUB LINERS

(Priced per 1000)

	6 to 12 ins.	12 to 18 ins.
Dble. Pink-Flw. Almond	\$135.00	\$150.00
Althaea, Rose of Sharon, S.	7.50	10.00
Dautzia Pride of Rochester, C.	20.00	25.00
Hydrangea P. G., C.	75.00	90.00
Hydrangea Oak Leaf, L.O. Div.	60.00	70.00
Lilac, Common Purple, L.O. Div.	50.00	65.00
Lonicera Tatarica (Bush Honeysuckle), C.	40.00	50.00
Privet, A. R. South, S.	4.50	6.00
Rhus Aromatica (Sumac), L.O. Div.	40.00	50.00
Rhus Cotinoides (Smoke Tree), L.O. Div.	50.00	60.00
Spiraea Callosa Rosea, Pink - S.	25.00	30.00
Symphoricarpos Vulgaris (Coralberry), C.	15.00	20.00

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Hydrangea P.G.	Per 100	Per 1000
4 to 6 ins., 1-yr., C.	\$4.50	\$40.00
6 to 12 ins., 1-yr., C.	6.00	55.00
12 to 18 ins., 1-yr., C.	7.50	70.00
Spiraea Vanhouttei		
6 to 12 ins., C.	3.50	30.00
9 to 12 ins., hedging	4.50	40.00
12 to 18 ins., hedging	6.50	60.00
18 to 24 ins., hedging	8.50	80.00
Cornus Florida	Per 10	Per 100
2 to 3 ft., 2-yr., light br.	\$2.50	\$20.00
2 to 3 ft., 2-yr., well-br.	5.00	40.00

NATIVE TREES AND EVERGREENS

Acer Rubrum, Acer		
Saccharum and Cercis		
Canadensis	Per 10	Per 100
4 to 5 ft., well-br.	\$4.50	\$40.00
5 to 6 ft., well-br.	6.00	55.00
6 to 8 ft., well-br.	7.50	70.00
Rhododendron Maximum,		
Kalmia Latifolia, Ilex	Per 100	Per 1000
Opaca, Tsuga Canadensis		
3 to 6 ins., S.	\$2.50	\$20.00
6 to 9 ins., S.	3.50	30.00
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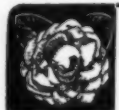
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received considerable interest, devoted to the problem of self-service in nurseries presented by Mrs. Clark Malmo, Malmo Nurseries, Seattle. Mrs. Malmo disclosed statistics regarding the status of home ownership in the country and the state. These showed that 55 per cent of the properties in Washington state are those of homeowners. In describing an ideal self-service plan Mrs. Malmo stressed that accessibility is the primary consideration and that the question of how to organize store facilities for this purpose is of secondary importance.

It has been found that modern buyers tend to make purchases more rapidly, that there is more impulse buying, she said. There are several ways that the customer can be helped, and Mrs. Malmo said she preferred to call the procedure self-selection rather than self-service. In the Malmo firm it was found that this method assured more sales per employee. In addition, the self-service arrangement made it possible and even necessary to display more merchandise in a smaller area. This had a further advantage in making it easier to control the inventory.

Harold Hopkins, Bothell, then addressed the group on the value of using a retail catalog as a means of increasing the sales volume per salesman, a system that had brought satisfactory results at Mr. Hopkins' nursery. He said that the function of the catalog is to serve as an extra salesman at the nursery and, to a lesser extent, to stimulate mail-order sales. He urged nurserymen to make catalogs available to waiting customers, thus increasing their interest in the plants.

Sales Promotion Panel

A panel discussion on sales promotion techniques followed. Speaking on this panel were Vic Mix, Bryan Taylor and Mrs. Malmo. Mr. Mix, serving as moderator, opened the discussion with the statement that nurserymen are facing stiffer and stiffer competition for their share of the customer's dollar. To cope with this problem he suggested that nurseries try to improve the eye appeal of their establishments, mainly by displaying attractive material where the public can see it. Mrs. Malmo followed with several suggestions on how to succeed with customers. She said that a smile is the most important part of the approach to the customer, though the ability to see the bright side of things is also helpful in starting off right. Another interesting comment offered by Mrs. Malmo dealt with the matter

of price cutting. Statistics have shown, she said, that a 5 per cent cut in an item's price makes it necessary to increase the sales volume of that item 25 per cent in order to have the same net profit. A cut of 15 per cent requires a 150 per cent sales volume increase. Mrs. Malmo said that one of the strongest arguments in favor of purchases of nursery stock is that no other investment of equal cost can increase the value of a person's property.

The value of a smile in closing sales was also stressed by Mr. Taylor, who followed Mrs. Malmo on the panel. Regarding the general arrangement of the nursery sales area, Mr. Taylor said he thought there is too much waste space. A customer cannot afford time for a long trip into the growing area to pick out a plant. Employees, he added, should be trained to know the relative values of many kinds of insecticides and fertilizers.

Harley Mays, Mays Nursery, Vancouver, Wash., next took the floor for a talk about the nursery industry in the southwest part of the state. He spoke about some of the early years of the nursery business in that area, touching particularly on the fortunes of a certain renowned apple tree which is distinguished by its longevity, having been planted 125 years ago.

Mr. Mays' talk concluded the program for the day.

A. A. N. Chapter 28 Meets

Most of the second day's sessions were given over to a meeting of chapter 28 of the American Association of Nurserymen, which includes Washington state. Walter Plough, president of the chapter and owner of the Columbia & Okanogan Nursery Co., Wenatchee, presided over the meeting. Mr. Plough spoke about the importance of Washington state and its high rank among horticultural states of the nation.

Following committee reports, an illustrated talk was given by Prof. Willard Summers, of the landscape department at Washington State College, Pullman. Professor Summers told about a booklet which he has been writing which deals with planning and planting ornamental gardens. The slides he showed at the meeting were illustrations drawn from this booklet.

Dr. T. D. Merrill, head of the department of horticulture at Washington State College, then described some of the work being carried on at the college.

The afternoon session, with Mr. Leamer presiding, was opened with

		Per 10	Per 100
CERCIS CANADENSIS (American Redbud)			
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3 to 4 ft.		4.50	40.00
2 to 3 ft.		4.00	35.00
SILVERLEAF MAPLE			
6 to 8 ft.		8.00	75.00
5 to 6 ft.		7.00	65.00
LIRIODENDRON TULIPIFERA (Tulip Tree)			
6 to 8 ft.		8.00	75.00
5 to 6 ft.		7.00	65.00
4 to 5 ft.		6.50	60.00
CHINESE ELM			
3 to 4 ft.		4.00	35.00
2 to 3 ft., sdgs.			6.00
18 to 24 ins., sdgs.			4.00
RED-FLOWERING PEACH			
1 1/16-in. cal., 4 to 5 ft.		6.00	55.00
9/16-in. cal., 3 to 4 ft.		5.50	50.00
3 to 4 ft.		5.00	45.00
CRAPE MYRTLE, Red			
2 to 3 ft.		3.50	30.00
CYDONIA JAPONICA RUBRA			
2 to 3 ft.		4.50	40.00
18 to 24 ins.		4.00	35.00
RED-LEAVED BARBERRY, Tr.			
15 to 18 ins., well-br.		4.50	40.00
12 to 15 ins., well-br.		4.00	35.00
ALTHAEA, Double			
(Red, Purple, Pink, White)			
3 to 4 ft.		3.50	30.00
2 to 3 ft.		3.00	25.00
WISTARIA, Grafted, No. 1			
		4.50	
HYDRANGEA P. G.			
2 to 3 ft.		3.50	30.00
18 to 24 ins.		3.00	25.00
MIMOSA, Dark Red			
4 to 5 ft.		4.00	35.00
3 to 4 ft.		3.00	25.00
MIMOSA, Pink			
4 to 5 ft.		3.50	30.00
3 to 4 ft.		2.50	20.00
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7/16-in. cal.			40.00
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Largest pure white	10	100
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18 to 24 ins., br.....	2.00	15.00
2 to 3 ft., br.....	3.00	25.00
CYDONIA JAPONICA RUBRA		
(Red-Fl. Quince)		
18 to 24 ins., br.....	3.50	30.00
2 to 3 ft., br.....	5.00	45.00
FORSYTHIA INTERMEDIA		
(Border Forsythia)		
18 to 24 ins., 2-yr., br.....	1.50	10.00
2 to 3 ft., 2-yr., br.....	2.00	15.00
HYDRANGEA QUERCIFOLIA		
(Oak Leaf Hydrangea)		
12 to 18 ins., 2-yr., tr.....	3.00	.....
18 to 24 ins., 2-yr., tr.....	6.00	.....
LONICERA MORROWI		
(Morrow's Honeysuckle)		
12 to 18 ins., br.....	1.00	8.00
18 to 24 ins., br.....	1.50	10.00
PHILADELPHUS CORONARIUS		
(Mock Orange)		
18 to 24 ins., 2-yr., br.....	2.00	15.00
PRUNUS GLANDULOSA		
(Almond)		
18 to 24 ins., br., tr.....	3.00	25.00
2 to 3 ft., br., tr.....	4.00	35.00
SPIRAEA PRUNIFOLIA		
(Dbl.-Fl. Bridal Wreath)		
18 to 24 ins., 2-yr., br., tr.....	2.50	20.00
2 to 3 ft., 2-yr., br., tr.....	3.50	25.00
SPIRAEA VANHOUTTEI		
(Van Houtte Spiraea)		
12 to 18 ins., 2-yr., br.....	1.50	12.50
18 to 24 ins., 2-yr., br.....	2.00	15.00
2 to 3 ft., 2-yr., br.....	3.00	25.00
SYRINGA PERSICA		
(Persian Lilac)		
12 to 18 ins., 2-yr., br.....	2.00	15.00
18 to 24 ins., 2-yr., br.....	2.50	20.00
2 to 3 ft., 2-yr., br.....	4.00	30.00
SYRINGA VULGARIS		
(Common Purple Lilac)		
12 to 18 ins., 2-yr., tr.....	2.00	15.00
18 to 24 ins., 2-yr., tr.....	3.00	25.00
VITEX INCISA		
(Cut-leaf Chaste Tree)		
18 to 24 ins., br., tr.....	2.50	20.00
2 to 3 ft., br., tr.....	3.50	30.00

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ACER DASycARPUM	Per	Per
(Silver Maple)	10	100
4 to 5 ft., br.....	\$ 4.00	\$ 35.00
5 to 6 ft., br.....	5.00	45.00
6 to 8 ft., br.....	8.00	70.00
ACER RUBRUM (Red Maple)		
5 to 6 ft., br.....	7.00	55.00
6 to 8 ft., br.....	9.00	75.00
8 to 10 ft., br.....	15.00	125.00
ALBIZZIA JULIBRISSIN		
(Mimosa)		
5 to 6 ft., selected whips	5.00	40.00
6 to 8 ft., selected whips	7.50	60.00
CERCIS CANADENSIS		
(American Redbud)		
3 to 4 ft., br., tr.....	4.00	35.00
4 to 5 ft., br., tr.....	7.00	60.00
5 to 6 ft., br., tr.....	9.00	75.00
LIQUIDAMBAR STYRACIFLUA		
(Sweet Gum)		
4 to 5 ft., br.....	6.00	50.00
5 to 6 ft., br.....	9.00	75.00
6 to 8 ft., br.....	10.00	90.00
LIRIODENDRON TULIPIFERA		
(Tulip Tree)		
3 to 4 ft., br., tr.....	3.50	30.00
4 to 5 ft., br., tr.....	5.00	40.00
5 to 6 ft., br., tr.....	6.00	50.00
6 to 8 ft., br., tr.....	8.00	70.00
TILIA AMERICANA		
(American Linden)		
2 to 3 ft., tr.....	4.00	35.00
3 to 4 ft., tr.....	4.50	40.00
4 to 5 ft., tr.....	6.00	50.00

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a talk by William Sprague, Krause Nurseries, Spokane, who just recently carried on a highly successful campaign for a "Plant Spokane" week in cooperation with the junior chamber of commerce. Among the many things mentioned by Mr. Sprague was the help received from the A. A. N. through Mr. Quadland, Mr. White and Mr. Porterfield in working out details for the "Plant Spokane" week affair. One of the ideas Mr. Sprague gained with the committee from the junior chamber of commerce was that of preparing a booklet on street trees for the Spokane area. The booklet emphasized the proper care, selection, etc., of trees which could help beautify the city.

Association's Effect on the Public

John Strander, Strander Nursery, Seattle, who has been editing the association news-letter, Balls and Burlaps, spoke next. He dwelt on the topic of publicity, saying that one of the advantages of the nurserymen's association is the effect it had on the buying public. It is possible to convince the public that such an association is trying to improve the service and products of its members. Mr. Strander felt there should be some way to let the public know which nurserymen are members of the association. He suggested displaying the association seal on a sign outside each member's nursery.

Mr. Strander stressed that plants are the building materials of the garden and nurserymen should emphasize this fact to their customers. This might help to offset the use of other structural material, such as concrete and wood, which Mr. Strander felt were not so desirable in the garden as living plants.

Mr. Strander concluded the speakers' portion of the program, and, following a brief discussion of old and new business, the meeting was adjourned until the banquet in the evening.

The banquet was held in the Daventport hotel and was attended by 120 persons. One of the highlights of the evening was the presentation of an award to John B. Strander because of his good work advancing the activities of the association during the previous year. Because of this work he was elected "Man of the Year." This award is to be presented each year to the person doing the most for the organization.

The speaker of the evening was Robert D. Dellwo, who showed slides and described some rivers and dams in the state of Washington.

The following day's meeting was

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5 to 6 ft.....	2.50	2.30	1.70
6 to 7 ft.....	2.60	2.50	1.90
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8 to 10 ft.....	3.00	2.90	2.50

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18 to 24 ins.....	\$0.55	\$0.50	\$0.40
2 to 3 ft.....	.70	.65	.55
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5 to 6 ft.....	1.25	1.10	1.00
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devoted to problems of fruit tree growers. It was presided over by Dr. Earle C. Blodgett, plant pathologist at the irrigation experiment station, Prosser, Wash.

OREGON MEETING

[Continued from page 11]

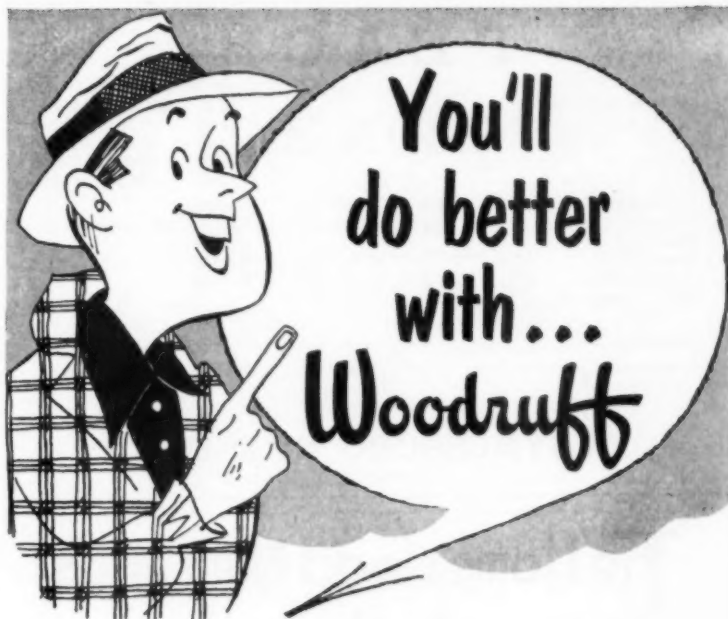
Continuing on his theme of new, practical and interesting plant materials, Mr. Taylor stressed the need for late-flowering types of shrubs. He listed examples of some of the new and interesting plant materials that should be included in the yard as well as some of the best of the old types that nurserymen can afford to push.

Concluding his talk, he urged the nurserymen to encourage the sale of winter-flowering shrubs, since the west coast area has a full winter selling season; and, in line with this, he was emphatic in pointing out that nurseries should be kept bright and dressed-up in the winter months to encourage customer interest.

Completing the list of outside speakers during the 2-day midwinter session was Chester O. Broders, assistant professor of business administration at Oregon State College. Mr. Broders spoke on the way business methods can help nurserymen. First, he divided selling into three main parts. He said the problem of completing a sale first involved the selling of oneself; then, the selling of a service, or rendering of advice, and thirdly, the final object, or selling of the product. He again reminded the nurserymen to "stand on the customer's side of the fence." In presenting his views to the audience Mr. Broders offered several brief sales promotional suggestions including the following: (1) Convey the point to the customer briefly; (2) illustrate words with action, and (3) choose words carefully when urging a sale. As an example of the last point, he stated that a salesman should never say "What do you want?", but should say "Which one do you want?"

Concluding the regular meeting of the Oregon nurserymen was a business meeting of chapter 12 of the A. A. N., with President Robert Walker presiding. Delegates were elected to the annual meeting of the A. A. N. in July at New York city. Holdover delegates elected for another year were A. Lynn Brooks and Melvin Surface, and James Doty was elected to a second term for two years.

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9/16-in. cal., 4 to 6 ft.	5.50	45.00	400.00
7/16-in. cal., 3 to 5 ft.	4.00	35.00	300.00
5/16-in. cal., 2 to 3 ft., heavy	3.00	25.00	225.00
2 to 3 ft.	2.50	17.00	150.00

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Engelmann Spruce	2.00	7.00
Norway Spruce	1.00	3.25
Dwarf Mugho Pine	1.25	4.00
Austrian Pine	.90	3.00
White Pine	1.50	5.00
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PENNSYLVANIA MEETING

[Continued from page 13]

nurserymen. He also mentioned the outstanding work being done with turf grasses. Dr. R. S. Kirby, plant pathology extension, was scheduled to be on the panel but because of illness could not be present.

Professor Meahl summed up the various points and said the main function of the college is teaching and that the product of this endeavor is trained students. It is hoped that those trained in horticulture can find employment with nurserymen and that they will be able to contribute to the improvement of the industry.

President's Nine Goals

In the afternoon, the meetings opened with Eugene Muller, DeKalb Nurseries, Norristown, giving the president's address. He reviewed the main business of the executive committee and nine goals for the year. The first goal was increased membership in the association. This work has been under the direction of Jesse R. S. Flory, who has plotted the location of each member of the Pennsylvania Nurserymen's Association and also the location of every licensed nurseryman in the state. Districts have been established, with a member of the association as chairman of each who will visit and sell the advantages of membership in the association to all nonmembers of the district. Three thousand booklets telling of the advantages of association membership have been printed, with 1,500 already mailed.

The second goal was to work out a plan for combining the Western Pennsylvania Nurserymen's Association and the Pennsylvania Nurserymen's Association into one organization. It was felt that this would make for a stronger association and would benefit all. The idea was presented to the Western Pennsylvania Nurserymen's Association at their annual meeting for consideration and a joint committee with representatives of both associations has been working out details to be presented to both organizations for approval or rejection.

Better legislation for the benefit of nurserymen was the third goal. Many items have been discussed with the association's solicitor. There has been a demand for a mechanics' lien law to include nurserymen but upon the advice of the solicitor, who felt it would be class legislation, this was dropped. Instead an alternate suggestion was made to draw up a contract which the client would sign before any work was done.

Other legislative matters were the

elimination of competition with state agencies, such as state nurseries, and the landscape architects' registration bill. A similar bill for registration was presented two years ago, which the nurserymen opposed until exceptions for all nurserymen were included in the bill. Thereafter, the nurserymen were neither for nor against. Nurserymen are excepted in the new bill and again are taking no stand.

Fourth Goal Achieved

The fourth goal was for a better annual booklet, which from all appearances was achieved. The fifth was for standardization and more realistic specifications for bidding on public works jobs. The committee had no recommendations at this time but were working on the problem and expected to have a plan worked out. The sixth goal was a paid secretary. It is not financially possible to have one yet but if membership increases perhaps it will be, he said.

Closer cooperation with state agencies, such as the highway department, in order to anticipate future planting needs so that nurserymen could be growing the material, was the seventh goal. The eighth goal was publicity and improved public relations. Clarence Pontz, C. E. Pontz & Son, Lancaster, had been carrying the load of the newsletter for the past two years, but did not feel he could continue. There is a possibility that an advertising agency will handle the newsletter and perhaps publish six issues per year. The ninth goal was the farm show exhibit, with R. J. Hively, Shiloh Nurseries, York, as chairman. An exhibit was staged showing a garden view through a picture window. This exhibit attracted much favorable comment at the show and should benefit all nurserymen. It was hoped it would be an annual event.

Plant Geography

Following President Muller's address, Dr. John M. Fogg, professor of botany, University of Pennsylvania, spoke on "Plant Geography." He presented charts which showed the great changes that have occurred in the various geological ages and how these have affected the soil and resulting plant life as we know it today. In considering the relation of plants to geography, it is necessary to keep in mind the elevation as well as the rainfall, and not only the total rainfall but the seasons when rain comes. By way of example, Rhododendron catawbiense and R. carolinianum can be grown in northern gardens since elevation makes condi-

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tions of their natural habitat similar to that of many northern areas.

Dr. Donald Wyman, Arnold Arboretum, gave an excellent talk on "The Arnold Arboretum, America's Greatest Garden." He showed Kodachrome slides of many of the choice plants growing in the arboretum and urged their wider use by nurserymen.

The final speaker of the afternoon was John D. Siebenthaler, vice-president of the American Association of Nurserymen who reported on A. A. N. activities. He said that the A. A. N. is concerned about the serious problem of deceptive advertising. Although much of it is not the fault of nurserymen, it reflects on the industry as a whole. A plan for controlling such practices was presented at the 1952 Detroit meeting but there are difficulties in executing it. There is a possibility that it might show partiality to A. A. N. members and might violate federal trade laws. However, standards have been drawn up and presented to various publishing and advertising organizations. It is hoped this will lead to improvements. A committee has been appointed to review advertising copy as it appears in magazines and newspapers, not to stop anything, but to report suspected copy to the Washington office.

Committee Reports

Reports of committees were heard Thursday morning, February 5. Jesse R. S. Flory, membership committee, reported 132 active members, 46 associate and four honorary members.

Owen B. Schmidt, F. D. Moore & Sons, Narberth, said a bill to prohibit state nurseries from growing and selling nursery stock in competition with nurserymen would be introduced in the legislature. After discussion on a possible labor lien law for protection of nurserymen, it was voted that the association prepare an amendment to the lien law to include nursery work.

The whole group stood for a moment of silent prayer in honor of members Mr. and Mrs. James Gillin, Ambler Nurseries, Ambler; Dick Guldemon, Blue Ridge Nurseries, Harrisburg, and Charles W. Hetz, Fairview Evergreen Nursery, Fairview, who have passed away during the year.

A special committee reported the establishment of the J. Hansell French Award through the courtesy of J. Hansell French, former Pennsylvania secretary of agriculture. This award is to be given each year to the Pennsylvania Nurserymen's

Association member who has contributed the most outstanding service to the nursery industry and the association. The first recipient of this award, for 1952, was Albert F. Meehan, Thomas B. Meehan Co., Dresher, Pa., secretary and treasurer of the association for more than 25 years.

The special committee on the merger of the Pennsylvania Nurserymen's Association and the Western Pennsylvania Nurserymen's Association reported that it would be advantageous to both associations if the merger was accomplished. It was voted to select a committee to study and make recommendations for changes in the bylaws to allow for the merger.

City Planning

After the business session, Joe W. Langran, landscape architect, gave an interesting discussion on "City Planning." He compared the uncertainties of city planning, because it concerns human beings, with the uncertainties that nurserymen have to face in nature. The city planner tries to coordinate efforts in three fields. In the economic field, things must be paid for and the expense must be justified. In the social field, better living should result in the form of schools, churches or better shopping areas. In the physical field, plant material must be used, particularly trees. Cities need open spaces where trees and shrubs can thrive.

To work out plans, the city planner must work with whomever is in office but must remain free of political entanglements. The legal tool for carrying out the plan is zoning. However, there first must be a plan and the decision for the plan should be made by the layman rather than by the professional technician. Mr. Langran illustrated the way that city planning can be developed by showing plans and work in progress in the establishment of Independence Hall, at Philadelphia.

The final speaker was Raymond P. Korbobo, ornamental horticulturist, Rutgers University, whose topic was "Frame Your Home with Trees and Shrubs." He said there were three main principles to remember in landscaping homes. These are (1) to soften the architectural features of the building where vertical lines meet the ground; (2) to frame the building with trees, and (3) to maintain open lawn areas. By using a large flannel-graph, Professor Korbobo showed how following these principles affects the appearance of a building and the beauty of a planting.



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California Course Attracts 200

By W. B. Balch

A 1-day short course for California nurserymen was held at the University of California, Davis campus, on January 30, and attracted over 200 nurserymen and their employees. It was sponsored by the California Association of Nurserymen, headed by the Superior chapter. This was the first in a series of 1-day short courses to be held in different parts of the state, the purpose of which is to show nurserymen how to serve their customers better, thus enabling them to improve their businesses and elevate the status of the nursery industry generally. Landscaping, insect control, lawn care, irrigation and propagation were among the subjects thoroughly and expertly discussed. Marstin H. Kimball, extension ornamental horticulturist at the university's Berkeley campus, was chairman of the meetings.

After welcoming by representatives of the C. A. N. and the university, Robert J. Tetlow, of the university's department of landscape gardening and floriculture, discussed "The Basic Principles of Landscaping." He handled a difficult and highly technical subject in an admirable manner and gave the group numerous new ideas about home landscaping. By showing color slides of some unsatisfactory jobs, he was able to point out how undesirable effects could be prevented as well as how to achieve satisfactory landscaping results.

Climate Control

A talk on climate control by Dr. Robert B. Deering, also of the department of landscape gardening and floriculture, followed. With facts and figures he illustrated the effect plants have on temperature control. He explained that the temperature over an asphalt pavement may be 10 degrees Fahrenheit higher than over a lawn adjoining it.

"Trees, too," he said, "tend to lower temperature, and if these are used alone as partial shade for a patio or in large numbers as a wind-break, they will in either case have a noticeable effect in lowering temperature."

He pointed out that the use of plants to control local climate was easiest to accomplish in the hotter, drier areas of a state, such as California's interior valley, and less likely to be effective in more humid

areas, such as the southern part of Louisiana. The plants, whether they are giant trees, alfalfa or grasses, perform their function in climate control, according to the speaker, by increasing the amount of moisture in the air. This is done by transpiration and this in turn lowers temperatures by using the heat of the air to volatilize the moisture introduced into the air. He mentioned also the use of vines and other plant materials to achieve lower summer and higher winter temperatures.

Warren Schoonover, extension soil specialist, University of California, discussed soils. He confined his remarks to soil correctives and outlined three principles of soil correction. He said that soils were sometimes unsatisfactory because of poor soil texture, structure or chemistry. Soil texture is determined by the

size of the soil particles, and he explained that it is difficult, if at all possible, to change this. The best procedure, according to Professor Schoonover, is to use fillers and organic matter in the form of manures, or inorganic matter in the form of sand and gravel. He stressed that it is necessary to use large amounts of the materials and that the use of small amounts is absolutely ineffective.

Professor Schoonover advised that structure, which he defined as the arrangement of the soil particles, could in some cases be altered by tillage, or working of the soil, but that most tillage had a bad effect on soil structure, and he felt that harm was being done in large as well as small areas by doing too much of it. He recommended the use of the synthetic soil conditioners, now popular and well-advertised, as a means of rearranging the soil particles. He indicated that these synthetics acted as a glue to the soil particles and thus, in a silt or clay soil, they could be effective. However, he added that

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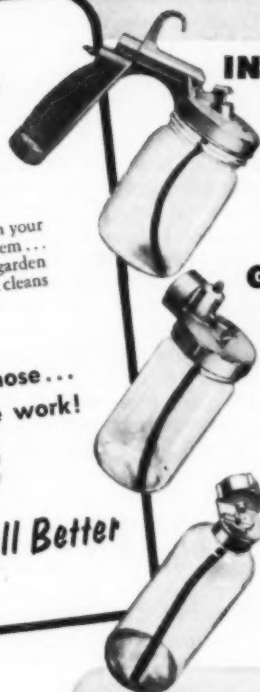
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for even semipermanent results an enormous amount was required and the cost was seemingly prohibitive. He cautioned nurserymen to have the soil in the desired condition before applying these materials; otherwise, it seems that they will not alter the soil structure but merely tend to keep it as it is. Thus, a soil which could be improved with these materials might be ruined for a long time by applying them when the soil was too wet or too dry. He indicated that the popularity of these products may be waning.

On the subject of chemistry of the soil, the speaker limited himself to its acidity or alkalinity. To correct an acid soil he suggested the use of lime. For an alkaline soil, he suggested the use of ammonium sulphate and noted that this would react with the soil chemicals and give the desired results better than many other products would. He advised the nurserymen to be sure of what they need before starting, and recommended the services of the county farm adviser for this purpose.

Two speakers briefly discussed lawn problems. Charles G. Wilson, regional director of the greens section of the United States Golf Association, who is stationed at the Davis campus, and Robert M. Hagan, of

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the department of irrigation of the U. of C., gave the nurserymen valuable pointers in the limited time allotted to them.

Mr. Wilson told of the organization, purposes and results of the work done by the greens section. Discussing new and standard grasses planted on golf greens, tees and fairways, he described new methods of caring for them. He pointed out that nurserymen were in a position to advise the homeowner on lawn care provided they were up to date on the subject, and he offered a list of books and booklets on lawn maintenance. A customer coming in for lawn information, he added, was a prospect for grass seeds, weed killers and insecticides for the lawn, as well as for tools and hose. He advised nurserymen to visit one of the lawn plots on his place of business as these would give customers a chance to determine which grasses were best for their conditions and would save the nurseryman time as customers could to a large degree wait on themselves.

Propagation by Cuttings

A discussion of "Recent Developments in Propagation by Cuttings," by Dr. H. T. Hartmann, of the university's department of pomology, was devoted mainly to an appraisal of the use of hormones. Dr. Hartmann said that there have been few new developments in propagation since the introduction of rooting chemicals about 15 years ago. However, eight factors control the rooting of the less easily rooted species. These are the age and condition of the plants; time of year the cuttings were taken; hormones; presence of leaves and buds; rooting medium; humidity; temperature, and light.

Although some nurserymen had reported failure from the use of hormones and given them up, Dr. Hartmann indicated that this was a mistake and recommended the use of pure chemicals, which they could mix themselves, rather than commercial mixtures. He explained that different species preferred different concentrations, and a commercial mixture might not be satisfactory for a given species. Dr. Hartmann also recommended strongly the use of controlled automatic humidifiers in the cutting bed.

To "Take the Backbreak Out of Weed Control," Dr. William A. Harvey suggested, first, thorough irrigation and fertilization. He then advised that the homeowner use 2,4-D or 2,4,5-T to kill most weeds. The 2,4,5-T also gives results with brush

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Troutdale, Oregon

and poison oak but several applications are needed. Crab grass must be tackled early in the season and one of the mercury products now on the market was recommended for use against it, although he added that proper lawn care would save the use of chemicals.

For keeping walks and other bare places clear of weeds, Dr. Harvey advised the careful use of sodium TCA, which he said did an excellent job but might soak into the ground and kill the wandering roots of desirable trees or shrubs. Oil sprays, too, were suggested for this use, but these must be used early in the season and repeated sprayings are needed for good control. Malic hydrol, which he said was at one time considered a boon to the home gardener, has not proved satisfactory. Continued use of this as an inhibitor of plant growth, to lessen the need for mowing or pruning, has killed lawns and shrubs after the third or fourth application. CMU is a comparatively new product which Dr. Harvey recommended as a complete sterilizer, and he described methyl bromide as the only soil fumigant which could be used on lawns.

As for stump and tree-killing, Dr. Harvey admitted that, as far as he knew, there is no chemical which can be applied to trees or stumps which will kill or rot them satisfactorily. Basal sprays of 2,4-D or 2,4,5-T were described as being somewhat effective, however.

Insect Control

Dr. A. E. Pritchard, department of entomology and parasitology, U. of C., Berkeley, addressed the group on insect control. Although he said he had nothing new to offer on the subject at this time, he reminded nurserymen of the importance of prompt spraying. Prompt spraying can result in a worth-while saving of spray materials and plants and is always advisable, he said.

The last hour and a half of the day was reserved for a question and answer panel. Although it started on time, there were so many questions and so much lively discussion of each subject that the question period ran well past its allotted time.

Before adjournment, the group officially thanked the college authorities and the speakers for the excellent program and splendid presentation of the material. The nurserymen made a formal request that the course be repeated next year and that the college aid them in establishing similar institutes throughout the state.

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Mahonia aquifolium (Oregon Grape)

An ornate little evergreen shrub, native of Oregon, where it is much loved and enjoyed. Leaves are holly-like and bright green. Has long clusters of bright golden-yellow flowers in the spring, followed by bunches of bright blue, grape-like berries, which are sometimes used for jelly making. Attractive in foliage, flower and fruit. Also fine for interior decorative purposes. Some leaves take on autumn tints of crimson, deep red, bronze and gold. The shrub is at its best in group plantings. One of the hardiest of the broad-leaved evergreens.

2 to 6 ins., not transplanted.....	\$ 9.00	\$ 72.00
6 to 9 ins., not transplanted.....	12.00	96.00
9 to 12 ins., not transplanted.....	15.00	120.00
3 to 6 ins., once transplanted.....	12.00	96.00

Mahonia nervosa (Longleaf Hollygrape)

Plants grow 12 to 18 inches tall. The leaves, which are 12 to 15 inches long, are beautifully fernlike in form. Flowers are bright golden yellow, followed by bunches of bright blue, grape-like fruit. The foliage is dark green turning to most beautiful shades of brilliant red and bronze in the fall. Does well in sun or shade. Thrives under conifers. Very hardy. One of the very best of Oregon's native shrubs.

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18 to 24 ins.	55.00
2 to 3 ft.	65.00

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OREGON COUNCIL MEETS

The Oregon bulb, florist and nursery council of the Oregon Association of Nurserymen met on January 27 to consider amendments to the Oregon nurserymen's law, as recommended by the lily growers at a meeting on January 21.

The present Oregon nurserymen's law is a license statute which licenses the seller of nursery stock. Licensees are divided into three groups, depending upon how they obtain their stock. The grower is defined as one who sells stock which he produces; the dealer is he who sells nursery stock which he has purchased, accepted on consignment or collected in the wild, and the agent is he who sells nursery stock for his principal, without handling the stock.

The proposed change in the law would define the dealer as one who handles, on a commission, brokerage or credit basis, nursery stock which he has obtained from the grower. The agent, instead of being a person who sells nursery stock for a grower or dealer, would be defined as one who solicits consignments for growers and dealers. The suggested definition exempts the dealer who obtains possession of nursery stock on a cash basis. The proposed change also includes the suggestion requiring the bonding of commission and credit handlers of nursery stock.

No definite action was taken by members of the council except the passing of a motion which recommended that any proposed changes decided upon should be made through the Oregon produce law if possible. The four florist representatives went on record as opposing the bonding of everyone with a nurserymen's license.

CENTRAL CHAPTER MEETING

The Central chapter of the California Association of Nurserymen held an interesting meeting February 10, at the Showboat, Oakland. Among the speakers were Jack Evans, state president; Elmer Merz, executive secretary of the state association; Ned Rucker, of the California spring garden show, and John Williams. Mr. Williams gave an informative talk on merchandising and salesmanship.

SOUTHEAST NURSERYMEN'S GROUP is a new California organization composed of nurserymen from South Gate; Huntington Park, Compton, Lynwood and Bell.

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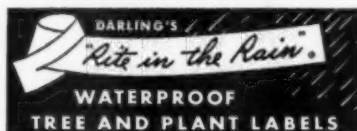
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PLANT GROWTH LAB

Scientists at the California Institute of Technology, Pasadena, are investigating the relationship between plants and their environment by means of a new approach. The scientists are attempting to isolate single or groups of environmental factors by controlling the growth of the plants in a large-scale laboratory called a phytotron. In the vault-like building, part of the university's Earhart plant research laboratory, every possible combination of light, temperature, humidity, gas content of air, wind, rain and fog may be produced and its effects upon the plants studied closely. Scientists grow these plants under aseptic conditions similar to those in an operating room. Access to the interior of the phytotron is through two washrooms that serve as decontamination chambers. Workers put on sterilized garments before entering the greenhouse itself. They wash their hands repeatedly, chiefly to remove possible tobacco mosaic virus, the biggest infection worry. Materials for planting are sterilized with steam and tools are fumigated.

The most important secret nature has as yet yielded in the phytotron, according to Dr. Frits W. Went, the laboratory's director, is that climate is at least as important in plant development as are diseases, heredity, pests, soil conditions and nutrition. Temperature and light, it has been discovered, exert extremely powerful influences on growth. These two factors, Dr. Went said, may be used to make up a deficiency in each other.

NURSEYMAN FEATURED

A San Fernando valley nurseryman, Allan Mori, whose firm, Mel-O-Dee Nursery, is located at North Hollywood, Calif., was publicized as the "Garden Personality of the Week," in a recent issue of the Hollywood Valley Advertiser.

Born at Phoenix, Ariz., according to the article, Mr. Mori settled in California 20 years ago. After serving his stint in World War II, in 1947 he and his wife, Carole, purchased three acres of land covered with sagebrush, which, in the past five years, they have transformed into a nursery stock-producing area. Several generations of the Mori family have been specialty plant growers.

R. BULGER, who is employed part time at a Hayward, Calif., greenhouse, is devoting much of his time to erecting greenhouses and lath houses for nurseries in the San Francisco bay area.

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MAPLE—Greenleaf Sycamore
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Complete list on request.
FLEMING'S FLOWER FIELDS
3100 Leighton Ave. Lincoln, Neb.

CAMELIAS

CAMELLIA JAPONICA LINERS
Two and three-year-old Camellia Japonica,
grown in 4-in. pots, 5-in. pots and quart cans.
Good percentage branched and budded—ideal
stock for lining out, planting in containers or
resale. Shipped in containers or paper pots.
RARE GROUP I:
Per 100: 8 to 12 ins., \$75.00; 12 to 18 ins., \$85.00
Adolph Audusson Red, Adolph Audusson
Var., Florence Stratton, Gen. George Patton,
Haku-rakuten, Imperator (French), Iwane-
shibori, Judge Barrett, Letitia Schrader, Lila
Rosa, Lindsay Neill, Morning Glow, Onli,
Pride of Descanso, White Empress, Wood-
ville Red.

RARE GROUP II:
Per 100: 8 to 10 ins., \$60.00; 12 to 18 ins.,
\$60.00; 18 to 24 ins., \$75.00
Bessie McArthur, Casablanca, Confagration,
Crepe Rosette, Davis Rose Dawn, Eleonor
of Fairlocks, Emperor of Russia, Fred
Sander, Goshu-suruma, Hirenge, Kokuryu
(Black Dragon), Lady Mary Cromartie Var.,
Martha Brice, Mathotiana (Purple Dawn),
Mathotiana Variant, Mrs. Charles Cobb, Ved-
rine, Vittorio Emanuele, Virgin Blush, Yohai-
haku (September Morn).

STANDARD GROUP I:
Per 100: 8 to 12 ins., \$40.00; 12 to 18 ins.,
\$50.00; 18 to 24 ins., \$60.00
Debutante, Duchess of Sutherland, Herme,
Lady Vansittart Var., Mathotiana Rosea,
Ootome, Pink Perfection, Prof. Sargent, Puri-
ty, Snowdrift, Teutonia Pink, Teutonia White.
STANDARD GROUP II:
Per 100: 8 to 12 ins., \$30.00; 12 to 18 ins.,
\$40.00; 18 to 24 ins., \$50.00
Brooklyn, Campbell, Candislasma,
Countess of Orkney, Opelousas Peony, Prince
Eugene Napoleon, Stille's Perfection Pink,
William Downing.

OVERLOOK NURSERIES, INC.
Crichton Station Mobile, Ala.

DAISIES

SHASTA DAISIES
MARK RIEGEL—Hardy, prolific and
beautiful. This giant 4-in., semidouble daisy
has outstanding qualities. Doz., \$4.00; 100,
\$20.00.
STONE MOUNTAIN—This large, wide-
petaled daisy has proved the hardest heat
and drought-resistant daisy we have ever
grown. Doz., \$5.00; 100, \$30.00.
MAYFIELD GIANT—An old standard.
Doz., \$2.00; 100, \$3.00.

RIEDEL PLANT CO. Experiment, Ga.

SHASTA DAISY—EARLY BOUQUET
Earliest of all. Grown outside for 13th's
day. Cuts and nursery sales. Rooted div.,
100, \$8.00.

PRAIRIE SOUTHWEST FLORETUM
Fall River, Kan.

EVERGREENS

FIELD-GROWN EVERGREEN LINERS
Each 100 1000
Irish Juniper, 1-yr., 6 to 12 ins., 12½ c 10c
Irish Juniper, 2-yr., 6 to 18 ins., 17½ c 15c
Fastigiata Irish Juniper,
1-yr., 6 to 12 ins., 12½ c 10c
Ashford Juniper, 1-yr., 6 to 18 ins., 12½ c 10c
Savin Juniper, 1-yr., 6 to 15 ins., 12½ c 10c
All liners are well-rooted, first class stock.
Transplanted Irish Junipers, 2 and 3-yr.
old. Our Irish Junipers are well-filled, shapely
plants and a bargain at the following prices:
Irish Juniper, bare-root, Each 100 1000
18 to 24 ins., \$0.60 \$0.40
Irish Juniper, bare-root, 2 to 3 ft., .75 .60
Irish Juniper, B&B, 18 to 24 ins., .75 .65
Irish Juniper, B&B, 2 to 3 ft., 1.00 .85
Irish Juniper, B&B, 3 to 4 ft., 1.25 1.00
All stock offered in first-class and will be
well-graded, well-packed in damp moss and
tow, insuring live delivery.
No packing charge when cash is sent with
order.
All orders will be appreciated and given
prompt attention.
200 or more plants at 1000 rate.
NAUGHER NURSERY
Chase, Ala.

LINING-OUT LIST PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

**ALL POTTED LINERS ON THIS LIST
ARE PRICED FOR SHIPMENT IN PAPER
POTS OR CUPS. THOSE WHO PREFER
THE ORDINARY METHOD OF PACKING,
OMITTING THIS ADDED PROTECTION,
MAY DEDUCT 1c PER PLANT.**

The 1000 rate applies on all orders; there-
fore, please order in multiples of 15 or more.

BIOTA AUREA NANA BERCKMANS EACH
8 to 10-in. liners.....\$0.18
*2½-in. pots18
6 to 8 ins., TTT, field-grown40
8 to 10 ins., TTT, field-grown45
BIOTA BAKERI
2½-in. pots14
2½-in. pots15
8 to 12 ins., TTT, field-grown30
12 to 18 ins., TTT, field-grown35
BIOTA BONITA
*2½-in. pots16
6 to 8 ins., TTT, field-grown40
8 to 10 ins., TTT, field-grown45
BIOTA EXCELSA
*2½-in. pots18
2½-in. pots20
8 to 12 ins., TTT, field-grown30
12 to 15 ins., TTT, field-grown35
BIOTA SIBYL
*2½-in. pots18
8 to 12 ins., TTT, field-grown30
12 to 18 ins., TTT, field-grown35
CEDRUS ATLANTICA
*2½-in. pots20
CEDRUS DEODARA
4 to 6-in. seedlings, 2-yr.05
6 to 8-in. seedlings, 2-yr.07
8 to 12-in. seedlings, 2-yr.09
12 to 15-in. seedlings, 2-yr.12
(6 to 8-in. and up, mostly branched.)
2½-in. pots19
2½-in. pots20
CUNNINGHAMIA LANCEOLATA GLAUC,
Blue Chinese Fir
6 to 8-in. liners18
2½-in. pots20
2½-in. pots22
JUNIPERUS CHINENSIS FORTUNEI
*2½-in. pots24
*2½-in. pots25
8 to 12 ins., TTT, field-grown35
12 to 15 ins., TTT, field-grown40
JUNIPERUS CHINENSIS PFITZERIANA
2½-in. pots17
JUNIPERUS CHIN. PFITZERIANA
COMPACTA19
JUNIPERUS CHIN. PYRAMIDALIS
COMPACTA25
JUNIPERUS CHINENSIS SYLVESTRIS
2½-in. pots20
JUNIPERUS COMMUNIS COL. COMPACTA
2½-in. pots18
8 to 12 ins., TTT, field-grown30
12 to 15 ins., TTT, field-grown35
JUNIPERUS COMMUNIS KIYONOI
*2½-in. pots20
6 to 8 ins., TTT, field-grown30
8 to 12 ins., TTT, field-grown35
12 to 15 ins., TTT, field-grown40
JUNIPERUS GLAUCO-PETZ
2½-in. pots18
2½-in. pots20
6 to 8 ins., TTT, field-grown35
JUNIPERUS HIBERNICA FASTIGIATA
2½-in. pots16
*2½-in. pots16
8 to 12 ins., TTT, field-grown35
JUNIPERUS VIRGINIANA KETELEERI
*2½-in. pots25
TAXUS CUSPIDATA
2½-in. pots15
2½-in. pots17
THUJA OCCIDENTALIS PYRAMIDALIS
2½-in. pots16
2½-in. pots18
ABELIA EDWARD GOUCHER
*2½-in. pots14
*2½-in. pots16
*2½-in. pots18
ABELIA GRANDIFLORA
2½-in. pots14
2½-in. pots16
(Flats—175 rooted cuttings—
\$11.50 per Flat.)
BUXUS HARLANDI13
BUXUS JAPONICA
2½-in. pots14
2½-in. pots16
6 to 8 ins., TTT, field-grown10
8 to 10 ins., TTT, field-grown20
10 to 12 ins., TTT, field-grown25
BUXUS SEMPERVIRENS
Rooted cuttings05
6 to 8 ins., TTT, field-grown08
6 to 8 ins., TTT, field-grown10
1½x2½-in. Vita-Bands12
2½x2½-in. Vita-Bands14
BUXUS SUFFRUTICOSA
Rooted cuttings07
4 to 6 ins., TTT, field-grown10
1½x2½-in. Vita-Bands12
2½x2½-in. Vita-Bands14
CAMELLIA SASANGUA, MAIDEN'S
BLUSH, MINE-NO-YUKI,
ROSEA, SETSU GEKKA
6 to 8-in. liners, extra-heavy08
2½-in. pots, extra-heavy10
2½-in. pots, extra-heavy12

(Continued in next column)

(Continued from previous column)

ELAEAGNUS FRUITLANDI Each
2½-in. pots19
2½-in. pots20
EUONYMUS PATENS SIEBOLDIANUS,
Large Leaf
2½-in. pots13
EUONYMUS PATENS SIEBOLDIANUS,
Small Leaf
1½x2½-in. Vita-Bands11
1½x2½-in. Vita-Bands12
2½-in. pots13
*2½-in. pots15
(Flats—130 rooted cuttings—
\$10.40 per Flat.)
GARDENIA FORTUNEI
2½-in. pots10
2½-in. pots12
(Flats—130 rooted cuttings—
\$10.40 per Flat.)
ILEX CORNUA BURFORDI
2½-in. pots, heavy18
2½-in. pots, heavy20
4-in. pots, heavy45
ILEX CRENATA CONVEXA BULLATA
2½-in. pots19
2½-in. pots20
2½-in. pots, extra-heavy35
ILEX CRENATA ROTUNDFOLIA
2½-in. pots18
2½-in. pots19
ILICUM ANISATUM
*2½-in. pots18
*2½-in. pots19
*2½-in. pots19
(Flats—125 rooted cuttings—
\$18.75 per Flat.)
JASMINUM FLORIDUM
*2½-in. pots13
(Flats—175 rooted cuttings—
\$10.50 per Flat.)
LAUROCERASUS CAROLINIANA
2½-in. pots14
LIGUSTRUM JAPONICUM
3 to 4-in. seedlings01
4-in. seedlings02
6 to 8-in. seedlings02
(Flats—1½x2½ ins. Bands—
8x12 ins.—30 bands to the
Flat, per Flat—\$4.50.)
LIGUSTRUM LUCIDUM COMPACTUM
2½-in. pots17
2½-in. pots18
MAGNOLIA GRANDIFLORA
3 to 4-in. seedlings04
4 to 6-in. seedlings06
6 to 8-in. seedlings08
8 to 10-in. seedlings10
2½-in. pots13
2½-in. pots14
NANDINA DOMESTICA
3 to 6-in. seedlings08
2-in. pots10
2½-in. pots10
PITTOSPORUM TOBIRA
2½-in. pots18
PYRACANTHA BELLI
2½-in. pots18
PYRACANTHA LAANDI
2½-in. pots16
2½-in. pots18
PYRACANTHA YUNNANENSIS
2½-in. pots16
VIBURNUM TINUS
2½-in. pots14
*2½-in. pots16
CORNUS FLORIDA, grafting grade
2½-in. pots10
6 to 8 ins., TTT, field-grown12
8 to 12 ins., TTT, field-grown15
KOLKOWITZIA AMABILIS
2½-in. pots16
LONICERA FLAMING BEAUTY
2½-in. pots16
2½-in. pots16
MAGNOLIA LILIFLORA
2½-in. pots25
3-in. pots30
3½-in. pots35
4-in. pots45
MAGNOLIA SOULANGEANA
2½-in. pots32
3-in. pots37½
3½-in. pots41
MAGNOLIA SOULANGEANA NIGRA
2½-in. pots26
*2½-in. pots28½
3½-in. pots31
SPIRAEA REEVESIANA FLORE-PLENO
2½-in. pots18
SPECIAL NOTICE: Items marked by as-
terisk (*) delivery Spring, 1953. All items
not so marked ready for shipment now or
later to suit customers' requirements.
T. G. OWEN & SON, INC.
Columbus, Miss.

TSUGA CANADENSIS—HEMLOCK

Seedlings, 18 to 30 ins. Gathered to order.
Immediate shipment in sphagnum moss.
\$3.00 per 10; \$20.00 per 100; \$160.00 per 1000.

PORTLAND AVE. NURSERY
1409 East 59th Tacoma, Wash.

CANADIAN HEMLOCK (B&B) Each

2 to 3 ft. \$3.25
3 to 3½ ft. 3.75
3½ to 4 ft. 4.50
BLACK AMERICAN ARBOVITAE (B&B)
3 to 4 ft. \$2.25 Each
LAUREL PARK NURSERIES
Hatfield Rd. Northampton, Mass.

EVERGREENS—Continued

LINING-OUT STOCK			
	100	1000	10,000
3 to 6 in.	\$3.00	\$20.00	\$18.75
2/0 Scotch Pine, Certified			
Riga, 3 to 6 in.	3.50	25.00	22.50
2/0 Scotch Pine, Dark Gr.			
Christmas Tree Strain.			
3 to 8 in.	3.00	20.00	18.75
2/0 American Arborvitae.			
2 to 4 in.	\$ 3.00	\$25.00	
2/0 American Pyramid Arborvitae.			
2 to 4 in.	3.50	30.00	
2/0 Ware Arborvitae, 2 to 4 in.	3.50	30.00	
2/1 Balsam Fir, 2 to 6 in.	4.00	30.00	
3/0 Austrian Pine, 4 to 10 in.	4.50	30.00	
2/0 Jack Pine, 3 to 6 in.	3.00	18.00	
2/0 Mugho Pine, 2 to 4 in.	3.00	25.00	
2/1 Mugho Pine, 2 to 4 in.	3.50	22.50	
2/0 Mugho Pine, 3 to 8 in.	4.00	35.00	
2/2 Mugho Pine, 4 to 8 in.	10.00	90.00	
2/0 Bk. Hills Spruce, 2 to 4 in.	3.00	20.00	
2/1 Bk. Hills Spruce, 2 to 4 in.	5.00	35.00	
2/2 Bk. Hills Spruce, 3 to 6 in.	7.00	60.00	
2/0 Colo. Blue Spruce, 2 to 4 in.	3.50	22.50	
3/0 Colo. Blue Spruce, 2 to 6 in.	4.00	27.00	
2/1 Colo. Blue Spruce, 2 to 4 in.	5.00	45.00	
2/0 Norway Spruce, 2 to 6 in.	3.50	22.50	
2/1 Norway Spruce, 3 to 6 in.	5.00	45.00	
2/2 Norway Spruce, 4 to 8 in.	9.00	80.00	
5/0 Norway Spruce, 4 to 8 in.	4.00	35.00	
2/1 White Spruce, 3 to 6 in.	4.00	35.00	
3/0 White Spruce, 3 to 7 in.	3.00	25.00	

2% discount for cash with order.
JOHN G. ZELENSKA
Rt. 2, Box 291 Grand Haven, Mich.

ROOTED CUTTINGS			
	Each	Per 100	
Euonymus Coloratus, 4 to 6 in.	.....	\$0.09	
Euonymus Vegetus, 4 to 6 in.	.....	.09	
Taxus Hicksi, 4 to 6 in.	.....	.10	
LINING-OUT STOCK			
Euonymus Vegetus, 1-yr., T., 6 to 8 in.	.....	.16	
Juniper, Andorra, 1-yr., T., 4 to 6 in.	.....	.18	
Juniper, Irish, 1-yr., T., 4 to 6 in.	.....	.20	
Juniperus Glauca Hetzi, 1-yr., T., 6 to 8 in.	.....	.20	
Juniperus Pfitzeriana, 1-yr., T., 4 to 6 in.	.....	.25	
Juniperus Prostrata, 1-yr., T., 4 to 6 in.	.....	.18	
Taxus Andersoni, 1-yr., T., 4 to 6 in.	.....	.18	
Taxus Capitata, 1-yr., T., 4 to 6 in.	.....	.18	
(Cuttings) .....	.18		
Taxus cuspidata, 1-yr., T., 6 to 8 in.	.....	.18	
Taxus Hicksi, 1-yr., T., 4 to 6 in.	.....	.18	
Thuja Elegantisima, 1-yr., T., 4 to 6 in.	.....	.18	
Thuja Elwangeriana, 1-yr., T., 4 to 6 in.	.....	.16	
Thuja Nigra, 1-yr., T., 4 to 6 in.	.....	.16	
Thuja Occidentalis, 2-yr., T., 10 to 12 in.	.....	.30	
Thuja Occidentalis Woodwardi, 1-yr., T., 4 to 6 in.	.....	.18	
Thuja Occidentalis Wareana, 1-yr., T., 4 to 6 in.	.....	.16	
Thuja Vervaeana, 1-yr., T., 4 to 6 in.	.....	.16	
Thuja Vervaeana Aurea, 1-yr., T., 4 to 6 in.	.....	.16	

CRYSTAL LAKE EVERGREEN NURSERY
R. D. No. 4
Slippery Rock, Pa.
GOLDEN GOOSE
LINING-OUT STOCK FROM POTS.
All quotations are from 2 1/2-in. pots, 1 and 2-yr. old. Grown in open beds under field conditions. Ready for immediate delivery or for reservation.

Each			
ILEX CORNUTA BURFORDI	(Chinese Holly), 4 to 6 in.	.....	\$0.16
ILEX CRENATA	(Japanese Holly), 6 to 8 in.	.....	.16
ILEX CRENATA BULLATA	4 to 6 in.	.....	.14
ILEX CRENATA MICROPHYLLO	6 to 8 in.	.....	.16
ILEX OPACA FEMINA	(Selected American Holly), 6 to 8 in.	.....	.20
LIGUSTRUM LUCIDUM COMPACTUM	6 to 10 in.	.....	.12
CHERRY LAUREL (Laurocerasus Caroliniana), 6 to 8 in.	.....	.12	
NANDINA DOMESTICA	6 to 10 in.	.....	.10

Our hollies are grown from either cuttings or grafts, from well-berried specimens, insuring berries for you.
TERMS: Packing without cost. Minimum 50 of a kind please, 25 per cent with order, balance C.O.D.
EVERGREEN NURSERIES
Poplar Avenue Germantown, Tenn.

75 Thuja Occidentalis Conspicua, 3 to 5 ft., \$2.75 each.
35 Thuja Occidentalis Bakeri, 3 to 5 ft., \$2.75 each.
Mrs. W. Bryan Powell
OAKLAWN NURSERY
Williston, S. C.

EVERGREEN PLANT MATERIAL
Liners and larger sizes of Aaleas, Cornus, Cotoneaster, Ilex, Juniperus, Leucothoe, Picea, Pieris, Rhododendrons, Taxus, Tsuga, Viburnum. Certified for shipment anywhere.
Wholesale Price List to the Trade.
H. W. WEBER EVERGREEN NURSERY
16 Summer St. Westport 93, Mass.

SEEDLINGS FOR SPRING

	Per 100	Per 1000
Scotch Pine, 2-yr., 2 to 4 in.	\$2.00 \$10.00
Scotch Pine, 2-yr., 4 to 6 in.	4.00 20.00
Scotch Pine (Riga), 2-yr., 2 to 4 in.	3.00 15.00
Scotch Pine (Riga), 2-yr., 4 to 6 in.	5.00 25.00
Scotch Pine (reg.), 3-yr., 5 to 10 in.	6.00 30.00
Scotch Pine (reg. or Riga), 3-yr., 10 to 16 in.	9.00 45.00
Austrian Pine, 2-yr., 3 to 6 in.	4.00 20.00
American Red Pine, 2-yr., 2 to 5 in.	4.00 20.00
Mugho Pine (Dwarf), 2-yr., 2 to 4 in.	5.00 25.00
Ponderosa Pine, 2 yr., 3 to 8 in.	3.00 15.00
Ponderosa Pine, 4-yr., 8 to 12 in.	5.00 25.00
Red Spruce, 2-yr., 2 to 6 in.	5.00 25.00

TRANSPLANTS
Scotch Pine, 2-1, 3 to 5 in. 6.00 30.00
Scotch Pine, 2-1, 5 to 8 in. 7.00 35.00
Austrian Pine, 2-1, 3 to 6 in. 5.00 25.00
Cash or 25 per cent deposit with order.
Balance C.O.D. 5 per cent discount on quantities of 25,000.

SAM DIBLE NURSERY
Sheolota, Pa.

EVERGREEN LINERS AND CUTTINGS POT-GROWN AND TRANSPLANTS

	Each—Per 100	Per 1000
Arborvitae, Pyramid, 1-yr. pots.20 .18
Arborvitae, Globe Woodward.20 .18

HEAVY-ROOTED CUTTINGS
From flats, rooted outside in lath house. Delivery now or spring, 1953.

	Each—Per 100	Per 1000
--	--------------	----------

Arborvitae, American	.....	.10 .09
Arborvitae, Globe Woodward	.....	.10 .09
Euonymus patens	.....	.05 .05
Taxus hadfieldi	.....	.11 .10
Taxus media hicksi	.....	.11 .10

HEAVY-ROOTED CUTTINGS JUNE 15 DELIVERY

	Each—Per 100	Per 1000
Arborvitae elegantissima	\$0.10 \$0.09
Arborvitae, Pyramid10 .09
Juniperus hetzi glauca11 .10
Taxus cuspidata11 .10
Taxus intermedia11 .10

5 per cent discount and free packing for cash with order.
250 plants at 1000 rate.
MIAMI NURSERY CO.
Tipp City, O.

LINING-OUT STOCK

	Heavy rooted cuttings, Per 100	Per 1000
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Ilex crenata convexa (bullata)	\$ 8.00 \$ 65.00
4 to 6 in.	9.50 85.00
Taxus cuspidata, 6 to 8 in.	9.00 80.00
Taxus hicksi, 6 to 8 in.	.....	9.00 80.00
Abelia grandiflora, 6 to 8 in.	.....	9.00 80.00

from northern plants. 9.00 80.00
1-yr., 2 1/2-in. rose pots
Deutzia gracilis 15.00 150.00
Abelia grandiflora 17.00 150.00
Taxus cuspidata 17.00 150.00
Taxus Moon's columnaris 17.00 150.00
Taxus hicksi 17.00 150.00
Ilex crenata convexa (bullata) 18.00 165.00

2-yr., 2 1/2-in. rose pots
Pfitzer Juniper 15.00 125.00
Taxus cuspidata 22.00 200.00
Taxus brevifolia 22.00 200.00

All potted and bedded stock from 6 to 8-in. cuttings.
Packing free for cash with order. 25 per cent deposit on all orders.
LEHIGH VALLEY NURSERIES, INC.
1745 Linden St. Bethlehem, Pa.

LINING-OUT STOCK

	Each—Per 100	1000
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Biota Aurea Nana	\$0.20 \$0.16
Dk. green Bakeri Arborvitae13 .14
Pyramid Arborvitae20 .16 1/2
Woodward Globe Arborvitae	.....	.20 .16 1/2
Biota Globosa	.....	.18 .15
Juniperus Burki	.....	.25 .22
Juniperus Hetzi Glauca	.....	.22 1/2 .18 1/2

1-yr. FIELD-GROWN
Dk. green Bakeri Arborvitae20 .17 1/2
Pyramid Arborvitae20 .17 1/2
Woodward Globe Arborvitae20 .17 1/2

E&B EVERGREENS
Juniperus Virginiana Glauca, 3 to 3 1/2 ft. \$3.00
Juniperus Hetzi Glauca 3.00
Pyramid Arborvitae, 3 to 4 ft. 2.00
Juniperus Pfitzeriana 3.00
Juniperus Columnaris Glauca, 3 to 4 ft. 3.00

TERMS: Cash with order—Free packing.
300 plants at 1000 rate.
VOGE NURSERY New Lebanon, O.

	Each	Per 100
--	------	---------

100 Andorra Junipers, 15 to 18 in.	.....	\$1.35
75 18 to 24 in.	.....	2.00
51 2 to 2 1/2 ft.	.....	3.00
100 Irish Junipers, 2 ft.	.....	1.75
400 Juniperus Hetzi Glauca, 15 to 18 in.	.....	2.00
150 Juniperus Hetzi Glauca, 18 to 24 in.	.....	2.50
200 Canadian Hemlocks, 18 to 24 in.	.....	2.00
200 Canadian Hemlocks, 2 to 2 1/2 ft.	.....	2.75

All carefully sheared, compact plants. P.O.B. Our nurseries. If you plan to visit us, kindly let us know in advance, so we will be here when you come. Phone evenings, 197-J or write, JAP. BEETLE AREAS ONLY.
WHERRY'S NURSERIES
St. Marys, W. Va.

TSUGA CANADENSIS POTTED LINERS

	Each
--	------

4 to 8 in. from 2 1/2-in. pots	.....	.22c
8 to 12 in. from 3-in. pots	.....	.30c
12 to 15 in. from 3 1/2-in. pots	.....	.45c

ROOTS AND TOPS PRUNED WHEN POTTED. We take the initial risks; you get healthy, heavy plants with perfect root systems. Order now for Fall, 1953, and Spring, 1954.

FOR SPRING, 1953, SHIPMENT:
Rhododendron maximum
Rhododendron catawbiense
Kalmia latifolia

Heavy clumps of superior quality from 15 in. to 5 ft.—collected upon order.
WHITE PINE liners 6 in. up—collected.
TSUGA CANADENSIS—any size collected. (Careful handling.)

WHITE FOR PRICE LIST
HAYNESFIELD NURSERIES
South 581-L Bristol, Tenn.-Va.

PICEA OMORIKA PANCIC
In their habitat the slender trunks reach a height of 100 to 120 ft. and bear relatively short branches. Their thick crown is almost column-shaped; the needles are flat like fir.

The Picea Omorika is the decorative tree par excellence of high architectural effect, because of its crowning the ends of which set themselves upright in soft curves.

The upper branches are adorned with the delicate cones in various hues which form an exceedingly nice contrast with the dark green and silver-gray needles.

This tree is recommended for ornamental purposes and as a park tree. It is absolutely frost hardy. And it is not susceptible to being poisoned by smoke.

GIBRALTAR (LEWIS) NURSERY
R. D. 1 Birdsboro, Pa.

LINING-OUT STOCK—SPRING, 1953

	Per 100	Per 1000	Per 5000
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1-0 Scotch Pine, 1 to 4 in.	\$2.25	\$12.00 \$ 55.00
2-0 Scotch Pine, 2 to 5 in. (Riga)	2.50	15.00 70.00
2-0 Scotch Pine, 3 to 7 in.	.....	4.50	22.50 100.00
2-0 Scotch Pine, 7 to 10 in.	.....	6.00	28.00 125.00
2-0 Norway Spruce, 2 to 6 in.	.....	3.00	20.00 95.00

Prices quoted include all packing and shipping charges. Cash with order please.
VAN'S PINES
West Olive, Mich.

ROOTED CUTTINGS

	Per 100
--	---------

Arborvitae Pyramidalis	.....	\$ 8.00
Juniperus Glauca Hetzi	.....	9.00
Juniperus Vonehron	.....	9.00
Taxus Andersoni	.....	9.00
Taxus Capitata, leaders only	.....	12.00
Taxus Cuspidata	.....	9.00
Taxus Hicksi	.....	9.00
Taxus Seebian's Intermedia	.....	9.00

Booking orders now for May shipment only.
Free packing and parcel-post charges prepaid. Cash with order, please.
EDWARDS EVERGREEN NURSERIES
West Lafayette, O.

JUNIPER GRAFTS

Canara, Glauca, Burki, Keteleeri, Chinese Mascula, Hetzi and Pfitzer, on Virginiana Understock. Price 40c each. Terms—one-fourth cash and balance before shipping date, plus boxing charges at cost. All cash with orders earns free boxing.

Grafts will be in short supply again this year. Be wise and order now. Remember when better grafts are made, Crume will make them.

T. C. Crume, Nursery & Landscaping Co.
Highway No. 42, Florence, Ky. Phone: 333

BEAUTIFUL RED CEDARS

	Per 1000
--	----------

5 to 10 in.	.....	\$20.00
10 to 15 in.	.....	35.00

	Per 100
--	---------

15 to 21 in.	.....	\$ 7.50
24 to 31 in.	.....	12.50
3 to 4 ft.	.....	17.50

Write for price list on E&B Evergreens. Many varieties, also shrubs and shade trees.
ROLLERS NURSERIES
Rogers, Ark.

JUNIPERUS HETZI
3 times transplanted—sheared 3 times
Full, heavy specimens, B&B
10-rate 100-rate 1000-rate
Each

24 to 30 in.	.....	\$4.00 \$3.75 \$3.50
30 to 36 in.	.....	4.50 4.25 4.00

We invite your inspection and correspondence.
CHARLES KLEHM & SON
Algonquin State Road
Arlington Heights, Ill.
Tel.: Clearbrook 3-299

JAPANESE BLACK PINE
We are headquarters for heavy liners of a beautiful compact strain of Pinus thunbergii.
JOSEPH A. HREN NURSERIES
East Hampton, L. I., N. Y.

EVERGREEN LINERS Per 100
3000 Andorra Junipers, 6 to 9 in., T. \$10.00
Cash with order appreciated. These are clean, healthy, well-rooted, field transplants.
WHERRY'S NURSERIES, St. Marys, W. Va.

QUALITY LINERS

	Per 100
Austrian Pine, 3 to 5 ins., tr.....	\$12.50
Canadian Hemlock, 5 to 10 ins., tr.....	20.00
Mugo Pine, 4 to 8 ins., tr. (sheared).....	20.00
Franklinia, 8 to 12 ins., adigs.....	25.00
Jap. Holly (small-leaved), 6 to 8 ins., tr.....	25.00
French Hybrid Lilacs, 6 to 12 ins., grafts.....	27.50
Viburnum Carlesii, 4 to 8 ins., tr.....	35.00
Red-flg. Dogwood, 6 to 10 ins., grafts.....	75.00
Red Japanese Maple, 6 to 12 ins., grafts.....	85.00

Send for new Spring List.
POSSUM HOLLOW NURSERIES
 6327 Magnolia St. Philadelphia 44, Pa.

EVERGREENS
 Juniperus pfitzeriana, unrooted cuttings from young plants, State-inspected, clean stock. Cut fresh when order is received.
 \$15.00 per 1000. Cash with order.

SCHMIDT'S FLOWERS
 3115 Market St. Youngstown, O.

2000 Norway Spruce, 9 to 14 ins. high, 6-yr. transplants. Most of them large enough for understock, \$10.00 per 100 or \$90.00 per 1000. Cash with order. Packing free.

ALBERT R. GAGE
 Williamson, N. Y.

JUNIPERUS PFTZERIANA LINERS
 8 to 12 ins., XX, \$47.50 per 100; \$420.00 per 1000. Free packing and our usual high quality. Terms—Cash with order.

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 Damascus, O.

LANDSCAPE-SIZE PINES
 Scotch, red and white pines, 8 to 12 years old, grown at 2 to 3-ft. spacings. Pictures available.

SUDBURY NURSERIES, INC.
 South Sudbury, Mass.

Unrooted cuttings of the following: Pfitzer Juniper, \$10.00 per 1000; Baker Arborvitae, \$15.00 per 1000; Spiny Greek Juniper, \$15.00 per 1000; English Juniper, \$10.00 per 1000.

KRONE'S FLOWER SHOP
 4221 Grand Ave. Fort Smith, Ark.

Don't Be Late!
 Mail advertising copy to reach the American Nurseryman Monday, two weeks before date of issue.

FRUIT and NUT TREES

FRUIT TREES IN SURPLUS
MEAN BIG SAVINGS TO YOU!
 Priced to Sell—Top-Quality Trees.

Cleaning Prices.
 Order in multiples of 10 or 25.
 3000 Apple Trees—whips—ideal to line out or sell immediately: 12 to 18 ins., only 8c each; 2 to 3 ft., 12½c. Good Varieties: Red Delicious, Stayman Wineapple, Yellow Delicious, Grimes' Golden, Jonathan, Lodi.
 1000 Kelsey Plum, 18 to 24 ins., 10c each; 2 to 3 ft., 15c each.

500 June Bud Peach, Golden Jubilee Elberta, Red Bird, Champion, 12 to 18 ins., 8c each.
 Write for special quotations on shade trees and shrubs. L.O. Stock priced right. Priced F.O.B.

GLOBE NURSERIES
 "Economy Headquarters"
 McMinnville, Tenn.

PAPERSHELL PECAN TREES
 Over 25 years' experience growing Pecan Trees on our proven better rootstock. Faster growth, earlier bearing.

Prices and sizes in lots of 5 and up: 3 to 4 ft., \$1.20; 4 to 5 ft., \$1.45; 5 to 6 ft., \$1.75; 6 to 7 ft., \$2.50; 7 to 8 ft., \$3.20; 8 to 9 ft., \$4.50.

Varieties: Burkett, Western Schley, San Saba Improved and Squirrel's Delight. Eastern varieties: Mahan, Delmas, Stuart, Success and Schley. All prices F.O.B. Goldthwaite, Tex. Cash with order or C.O.D.

COCKRELL'S RIVERSIDE NURSERY
 Route 1 Goldthwaite, Tex.

APPLE, 2-yr., 11/16-in. cal., \$6.50 per 10.
 Red Delicious, Yellow Transparent, McIntosh.
 PEAR, 2 and 3-yr., \$7.50 per 10.
 Bartlett, Beurre Bosc, Clapp Favorite.
 PEACH, 1-yr., 9/16-in. cal., \$6.50 per 10.
 Elberta, Golden Jubilee.

Concord grapes, bearing size, \$20.00 per 100.
 Flowering shrubs, Roses, Privet, Sugar Maple.
 Write for list. Can do other stock.

FINNERTY'S NURSERY Rensselaer, N. Y.

CRAB APPLE GRAFTS
 ELEYI
 DOLGO
 HOPA

\$10.00 per 100. \$85.00 per 1000.
 Prepaid for cash with order.
 We do contract grafting. Write for particulars.

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AMERICAN FILBERTS (Hazelnuts)
 Per 10 Per 100
 2 to 3 ft. \$5.50 \$50.00
 3 to 4 ft. 8.00 75.00
 4 to 5 ft. 10.00 95.00
 5 to 7 ft. 12.50 115.00
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Benefit from
American Nurseryman Classified Ads.

GRAPES

LARGE 2-YR. GRAPES

Concord and Fredonia

100 \$ 8.00

1000 70.00

DELIVERY ANY TIME!

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Mountainburg, Ark.

GRAPE CUTTINGS—Concord and Fredonia, \$4.00, 1000, D.B. Here. Tied with wire, 100 to bunch. Guaranteed true to name. Cut from our young, thrifty vineyard, largest in Oklahoma.

IDEAL FRUIT FARM Stillwell, Okla.

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PACHYSANDRA TERMINALIS, strong rooted cuttings, \$3.75 per 100, \$35.00 per 1000. Beetle Zone only. Over 5000, \$32.50 per 1000.
DUNWOODIE NURSERIES, 6 Smart Ave., Yonkers, N. Y.
 Yonkers 5-1473.

PACHYSANDRA TERMINALIS, Strong, 1-1/2 yr., field-grown, \$65.00 per 1000.
HILLCREST GREENHOUSES, Franklin, Pa.

HARDWOOD CUTTINGS

HARDWOOD CUTTINGS
 We have very large cutting blocks listing more than 50 varieties of shrubs and trees. On account of the time necessary to process them it is urgently requested that we have your order early.

	Per 1000
Aronia melanocarpa	\$ 4.00
Cornus amomum	4.00
Cornus lutes (yellow bark)	6.00
Cornus paniculata	4.00
Cornus sibirica	5.00
Diervilla trifida	4.00
Elder, canadensis	5.00
Elder, Cutleaf	4.00
Elder, red-berried	6.00
Foraythia intermedia	3.00
Foraythia ovata	4.00
Foraythia primulina	4.00
Foraythia spectabilis	3.00
Honeysuckle, bella albidia	3.00
Honeysuckle, bella rosea	3.00
Honeysuckle, korolkowi	5.00
Honeysuckle, morrowi	3.00
Honeysuckle, tat. rosea	5.00
Honeysuckle, zabeli	5.00
Hydrangea A.G.	5.00
Hydrangea P.P.	5.00
Juniper, Andorra	12.00
Juniper, Pfitzer	12.00
Philadelphus Amalthee	4.00
Philadelphus Bouquet Blanc	3.00
Philadelphus grandiflorus	3.00
Philadelphus lemoinei	3.00
Philadelphus Mt. Blanc	3.00
Physocarpus opulifolius aureus	4.00
Physocarpus opulifolius nanus	5.00
Poplar, Lombardy	3.00
Privet, Itoha	3.00
Privet, Regel (true)	5.00
Snowberry, white	4.00
Sorbaria sorbifolia	3.00
Spiraea billardi	4.00
Spiraea froebeli	4.00
Spiraea thunbergi	4.00
Spiraea trichocarpa	3.00
Spiraea vanhouttei	4.00
Taxus canadensis	12.00
Taxus cuspidata	12.00
Thuja globosa	12.00
Thuja pyramidalis	12.00
Thuja, Siberian	12.00
Viburnum dentatum	4.00
Willow, dwarf Arctic	4.00
Willow, French	5.00
Willow, Niobe	3.00
Willow, Wisconsin	4.00

Packed free. Cash with order, please.
 Delivery in good order guaranteed.

SCOTCH GROVE NURSERY
 Scotch Grove, Ia.

HARDY PLANTS

PEONIES

	Per 100
Strong, young roots, 3 to 5-eye and up	\$45.00
Felix Crousse	45.00
Festiva Maxima	45.00
Gloire de Boskoop	45.00
Karl Rosenfeld	45.00
Lady Alexandra Duff	45.00
Mac Mahon	45.00
Mme. Calot	45.00
Mons. Jules Elie	45.00
Reine Hortense	45.00
Sarah Bernhardt	45.00
Dicentra Spectabilis, 5 to 8-eye	30.00
Dicentra Eximia, 3 to 5-eye	15.00
Dicentra Eximia, 5 to 8-eye and up	20.00
Funkia Variegata	18.00
Helleborus Niger (Christmas rose)	65.00
Eremurus Bungel, \$1.90 each	
Eremurus Shellfordi, Hybrid, \$1.50 each	
Eremurus Robustus, \$2.00 each	

HARDY NORTHERN-GROWN LILY BULBS
 New, rare, scarce and unusual as well as standard varieties. Send for your free copy.

New wholesale list now ready.
J. HENDRIKS, GROWER, Portage, Mich.

LYONDEL GIANT HYBRID DELPHINIUM

We should SHOUT MORE about these LYONDEL HYBRIDS because they withstand the combination of droughty summers and severe winters. Exceptionally large flowers, wide range of beautiful colors; doubles, semidoubles and singles. Many customers report better than 90 per cent doubles.

If you have not grown these wonderful Delphinium—enjoy the best by test, and place your order now for spring delivery.
MIXED COLORS ONLY.

FIELD-GROWN PLANTS—\$3.75 doz.; \$22.50 per 100; \$200.00 per 1000.

SEED from carefully selected plants, will germinate nearly 100 per cent—no refrigeration necessary to keep them, either. \$20.00 per oz.; \$11.00 per 1/2 oz.; \$6.00 per 1/4 oz.

Write for our 1953 WHOLESALE LIST featuring the SUMMER-FLOWERING MUMS and other Choice PERENNIALS.

CORLISS BROS. INC. NURSERIES
 15 Reynard St. Gloucester, Mass.

HARDY PLANTS—WITH SALES APPEAL, 25 at 10¢ rate. Per 100

Ageratum Blue Mist (Eupatorium sp.)	\$ 6.00
Aster Frikarti, lovely blue	12.00
Aster New Royal Purple, none better	12.00
Aster Red Cloud, very prolific	12.00
Asclepias tuberosa, Butterfly fl., rich orange	12.00
Dianthus, Clove Pinka, select colors	8.00
Grecian Foxglove, Digitalis lanata, unusual	18.00
Hardy Snapdragon (Linaria), yellow	12.00
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Lilium formosanum, large white, 3-yr. bulbs	12.00
Penstemon Pygmy Rose, rosy-lilac	12.00
Penstemon tubiflorus, tall pure white	10.00
Scutellaria Blue Symphony, lovely 3-ft. cuts	12.00
Shasta Daisy, Early Bouquet, rooted div.	8.00
Statice latifolia, excellent mist filler	12.00
Stokesia Blue Moon, no aster its equal	8.00
Tritoma pfitzeri, red-orange Torch Lily	6.00

PRAIRIE SOUTHWEST FLORETUM
 Fall River, Kan.

Nice Sturdy Plants out of 2 1/2-in. Pots	Per 100
Arborvitae	\$17.50
Golden Berekmans	17.50
Excelsa	17.50
Green Bonita	17.50
Bluepire	17.50
Von Ehron Juniper	18.00
Primrose Jasmine	12.00
Small-leaved Yew	17.50
Italian Cypress, 2 1/2-in. pots	18.00
Barbados Cherry, 2-in. pots	15.00
Blue Vase Juniper (Blue Star), 2 1/2-in. pots	25.00
Wax Ligustrum, 2 1/2-in. pots	12.50

BRADSHAW'S NURSERY
 League City, Tex.

PERENNIALS
 Field-seeded, intensively cultivated, well-rooted and hardy. Two-year transplants. Prices per hundred.

AQUILEGIA—Crimsonstar, \$12.00; Longissima, \$12.00; **ASTILBE**—Rosa, \$12.00; **DELPHINIUM** Pacific Giant—Black Knight, \$14.00; Sir Galahad—White, \$14.00; **GAILLARDIA**—Dazzler, \$12.00; **DIANTHUS**—Beauty, \$8.00; **LUPINE**—Russell, \$10.00; **PHLOX**—Subulata, Pink and Brilliant, \$10.00; **PLATYCODON**—Pink and Blue, \$12.00; **PYRETHRUM**—Robinsona Crimson, \$12.00; James Kelway, \$12.00. Cash with order, please.

J. J. NIGARD NURSERY
 Herbaton, Wis.

EUONYMUS Coloratus, 2-yr., field-grown, \$25.00 per 100; \$225.00 per 1000

EUONYMUS Coloratus, 1-yr., 2 1/2-in. pot, \$12.50 per 100; \$100.00 per 1000

EUONYMUS Rad. Erecta, 2-yr., field-grown, \$25.00 per 100; \$225.00 per 1000

EUONYMUS Rad. Erecta, 1-yr., 2 1/2-in. pot, \$12.50 per 100; \$100.00 per 1000

LYTHRUM Morden Pink, 1-yr., field-grown, \$18.00 per 100; \$160.00 per 1000

LYTHRUM Prolific, 1-yr., field-grown, \$18.00 per 100; \$160.00 per 1000

All above: 25 of a kind at 100 rates; 250 of a kind at 1000 rates.

CUNNINGHAM GARDENS, INC.
 Waldron, Ind.

EUONYMUS RADICANS ERECTA, patens Newport; carrieri and coloratus. Rooted cuttings, 6c; 2-in. pots, 10c; 2-yr. field, XX, 20c.

BALTIC IVY, Rooted cuttings, 5c; 2-in. pots, 10c; 2-yr., 2 1/2-in. pots, 15c.

VINCA MINOR BOWLES, divisions, 5c.

DELPHINIUM PACIFIC HYBRIDS. Separate colors and mixed, 2-in. pots, 9c.

6 per cent off on 500, 25 per cent down to reserve.

STRATFORD GARDENS Delaware, O.

Pansies, perennials and rock plants in wide variety. Send for catalog.

PITZONKA'S FARM
 Bristol, Pa.

HARDY PLANTS—Continued

Strong field-grown perennials for spring shipment. Place your order now.

Aquilegia—Mrs. Scott's	Per 100
Carnation—Grenadin mixed	6.00
Delphinium—Giant Pacific, mixed colors	8.00
Shasta Daisy—Alaska	6.00
Shasta Daisy—Double	8.00
Viola—Cornuta, mixed colors	4.00

NORTH POLE NURSERY

Cornucopia, Wis.

GYPSOPHILA BRISTOL FAIRY

Grafted pot plants. Order now for Spring delivery; shipping will start about April 1.

2 1/4-in. pots	Per doz.	Per 100	Per 1000
25 at 100 rate, 250 at 1000 rate.			

BLUE ACRE GARDENS
David L. Guenther, Prop.
P. O. Box 347 Piqua, O.

HARDY FERNS

Ostrich, Lady, Clayton and Maidenhair, \$7.50 per 100; xx size, \$10.00.

STRAND NURSERY CO.

Taylors Falls, Minn.

PERENNIALS

New and standard kinds.

New wholesale list now ready.

CARROLL GARDENS

Box 15 Westminster, Md.

PERENNIALS

Aster Frikarti, rooted cuttings, \$10.00 \$90.00
Lythrum Morden's Pink, 1-yr.

Field-grown, No. 2 grade, 10.00 90.00
PLANE VIEW NURSERY, NEWPORT, R. I.

America's Best Source

for Hardy Plants

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

TEUCRIUM CHAMAEDRYD

Well-rooted cuttings.

Sub Viola, double rose-pink.

Peach Blow, double pink.

Agnes Gault, single pink.

Indian Chief, single red.

Golden Dawn, single yellow.

Alba White, single white.

Brilliantissima, single red.

Grandiflora, single pink.

Payche, single red.

California Gold, single yellow.

Florida Gem, single pink.

Red Agnes Gault, single red.

American Beauty, single pink.

Luna, single yellow.

Delicata, single orchid.

Tahiti, single yellow.

Pride of Bellaire, single yellow.

Plumbago.

Grand Duke Jasmine.

Confederate Jasmine.

BRADSHAW'S NURSERY

League City, Tex.

HIBISCUS

VON KLEINSCHMIDT Hibiscus, first time offered in Texas. Sturdy, fast-growing, double lemon-yellow hibiscus, profuse blooming, with lemon fragrance, \$35.00 per 100.

Out of 2 1/4-in. pots. Per 100

Crown of Bohemia, double yellow, \$26.00

Hills of Gold, double yellow, 26.00

Lamberti, double red, 21.00

Pride of Hankins, double rose, 21.00

Coral Beauty, double coral, 21.00

Kona, double light pink, 21.00

Jigoro, double orange, 21.00

Sub Viola, double rose-pink, 21.00

Peach Blow, double pink, 21.00

Agnes Gault, single pink, 21.00

Indian Chief, single red, 19.00

Golden Dawn, single yellow, 19.00

Alba White, single white, 19.00

Brilliantissima, single red, 16.00

Grandiflora, single pink, 16.00

Payche, single red, 16.00

California Gold, single yellow, 19.00

Florida Gem, single pink, 19.00

Red Agnes Gault, single red, 19.00

American Beauty, single pink, 19.00

Luna, single yellow, 19.00

Delicata, single orchid, 19.00

Tahiti, single yellow, 19.00

Pride of Bellaire, single yellow, 19.00

Plumbago, 12.50

Grand Duke Jasmine, 12.50

Confederate Jasmine, 12.50

BRADSHAW'S NURSERY

League City, Tex.

IVIES

IVIES

English—Hedera helix.

Baltic—Hedera helix baltica.

2 1/4-in., \$12.00 per 100.

English Tree Ivy, Hedera helix arborea.

2-in., \$20.00 per 100.

No charge for packing.

when cash accompanies order.

THE HOLLANDIA GARDENS

South Vienna, Ohio

Hardy ENGLISH IVY from stock surviving in our nursery at below zero temperatures. Rooted cuttings, \$30.00 per 1000. PREPAID.

BABCOCK GARDENS

R. 3 Jamestown, N. Y.

LINING-OUT STOCK

MAGNOLIA LINERS

Magnolia Nigra 100 1000
12 to 18-in. cuttings, \$30.00 \$250.00
18 to 24-in. cuttings, 35.00 300.00
Magnolia Soulangiana
8 to 12-in. cuttings, 30.00 250.00
12 to 18-in. cuttings, 35.00 300.00
(50 and 500 at 100 and 1000 rates, respectively.)

OVERLOOK NURSERIES, INC.

Crichton Station Mobile, Ala.

LINING-OUT STOCK

Per 100 Per 1000

ACER DASYCARPUM, Silver Maple

12 to 18 ins., S., 1.50 \$12.00

18 to 24 ins., S., 2.00 15.00

2 to 3 ft., S., 3.00 25.00

ACER RUBRUM, Red Maple

12 to 18 ins., S., 2.50 20.00

18 to 24 ins., S., 3.00 25.00

2 to 3 ft., S., 4.50 40.00

ALBIZZIA JULIBRISSIN, Mimosa

12 to 24 ins., S., 2.00 15.00

18 to 24 ins., S., 2.00 25.00

2 to 3 ft., S., 4.00 35.00

3 to 4 ft., S., 7.00 65.00

CATALPA SPECIOSA, Western Catalpa

12 to 18 ins., S., 1.50 10.00

18 to 24 ins., S., 2.00 15.00

2 to 3 ft., 2-yr., S., 10.00

CERCIS CANADENSIS, Redbud

12 to 18 ins., S., 2.50 20.00

18 to 24 ins., S., 3.00 25.00

2 to 3 ft., S., 5.00 45.00

CITRUS TRIFOLIATA, Hardy Orange

12 to 18 ins., S., 4.50 40.00

18 to 24 ins., S., 5.50 50.00

CORNUS FLORIDA RUBRA, Pink Dogwood

12 to 18 ins., Br., 55.00

18 to 24 ins., Br., 110.00

COTINUS COGGYGRIA, Smoke Tree

12 to 18 ins., divisions, 5.50 50.00

LIQUIDAMBAR STYRACIFLUA, Sweet Gum

12 to 18 ins., S., 3.50 30.00

18 to 24 ins., S., 5.00 45.00

2 to 3 ft., S., 8.00 75.00

MORUS TATARICA, Russian Mulberry

6 to 12 ins., S., 2.00 15.00

12 to 18 ins., S., 2.50 20.00

POPULUS NIGRA ITALICA, Lombardy Poplar, 2 to 3 ft., C., 4.00 35.00

ROBINIA PSEUDACACIA, Black Locust

12 to 18 ins., S., 1.50 12.50

18 to 24 ins., S., 1.75 15.00

2 to 3 ft., S., 2.50 20.00

CYTISUS SCOPARIUS, Scotch Broom

6 to 12 ins., S., 4.00 35.00

12 to 18 ins., S., 7.50 70.00

18 to 24 ins., S., 15.00

DEUTZIA, CRENATA

DEUTZIA, Pride of Rochester

6 to 12 ins., C., 2.50 20.00

12 to 18 ins., C., 3.50 30.00

18 to 24 ins., C., 5.50 50.00

FORSYTHIA FORTUNEI

FORSYTHIA INTERMEDIA

12 to 18 ins., C., 4.00 35.00

18 to 24 ins., C., 4.50 40.00

HYDRANGEA QUERCIFOLIA

6 to 12 ins., divisions, 5.00 40.00

12 to 18 ins., divisions, 6.00 50.00

LIGUSTRUM AMURENSE, North Privet

6 to 12 ins., 2 Br. up, 4.00 35.00

LIGUSTRUM ELAEAGNOLIFOLIUM, Privet

6 to 12 ins., C., 3.00 25.00

12 to 24 ins., C., 3.50 30.00

LIGUSTRUM SINENSE, South Privet

18 to 24 ins., 2-yr., S., 1.00 8.00

2 to 3 ft., 2-yr., S., 1.50 12.00

LONICERA MCLEODII, Sprigging

Honeysuckle, 12 to 18 ins., C., 4.00 30.00

12 to 18 ins., Hedging, 5.00 40.00

LONICERA TATARICA, Tatarian Honeysuckle, 6 to 12 ins., C., 4.00 35.00

12 to 18 ins., C., 4.50 40.00

PHILADELPHUS CORONARIUS

Mock orange, 12 to 18 ins., C., 4.00 35.00

18 to 24 ins., C., 6.00 50.00

SPIRAEA CALLOSA ROSEA, Pink Spiraea

12 to 18 ins., S., 2.50 20.00

18 to 24 ins., S., 3.50 30.00

SPIRAEA VANHOUTTEI, Van Houtte Spiraea

6 to 12 ins., C., 3.50 30.00

12 to 18 ins., C., 4.00 35.00

SYMPHORICARPOS ALBA, White Snowberry

12 to 18 ins., C., 4.50 40.00

18 to 24 ins., C., 6.00 50.00

SYMPHORICARPOS ORBICULATUS, Coralberry, 12 to 18 ins., C., 2.00 17.50

18 to 24 ins., C., 2.50 20.00

WEIGELA ROSEA, Pink Weigela

6 to 12 ins., C., 3.50 30.00

12 to 18 ins., C., 4.00 35.00

18 to 24 ins., C., 5.00 45.00

CELASTRUS SCANDENS, Bittersweet

12 to 18 ins., C., 4.00 35.00

18 to 24 ins., C., 5.00 45.00

VINCA MINOR, Hardy Myrtle

Crowns, 1 to 3 leads, 2.00 15.00

Made-up clumps, 4.00 35.00

Well-rooted field-grown plants. 2 per cent discount for cash sent with order, regular terms to established customers. Order now for immediate or future delivery.

THE TRIANGLE NURSERY

McMinnville, Tenn.

BERBERIS THUNBERGII, ATROPUR-PUREA (Red Barberry), Nicely branched, 2-yr., 6 to 8-in. stems at \$6.00 per 100, \$50.00 per 1000. A copy of our 1953 wholesale 76-page catalog sent on request.

THE TINGLE NURSERY CO.

Pittsboro, N. C.

LINERS

Complete list of lining-out stock of ornamental aristocrats now ready. Copy gladly sent on request. Established 1921 and still growing. JOHN VERMULEN & SON, INC.

Neshanic Station, N. J.

1952-1953 Lining-out Stock

Per 100 Per 1000

14,500 Althaea, 1-yr. adigs., \$4.50 \$35.00

775 Althaea W. R. Smith, 2 1/4 to 3 ft., heavy, each 20c

540 Althaea Woodbridge, 2 1/4 to 3 ft., heavy, each 20c

3000 Azalea Mollis, 2-yr., TT, FR 25.00 200.00

150 Cotoneaster Divaricata, 2-yr., 9 to 12 ins., TT, FR 30.00 250.00

7900 Cydonia Japonica, 1-yr. adigs., 4.50 35.00

1850 Cydonia Japonica, 2-yr. adigs., 8.50 75.00

400 Euonymus Radicans, Variegatus 35.00 300.00

200 Hydrangea P.G., 1-yr., 9 to 12 ins., 15.00 140.00

825 Liquidambar Styraciflua, 1-yr. adigs., 7.00 60.00

1000 Philadelphus Virginialis, 2-yr., 15 to 18 ins., T, FR 30.00 250.00

3000 Picea Excelsa, 3-yr., T, FR 30.00 250.00

15,000 Rosa Multiflora, grafting size, 5.00 40.00

50,000 Rosa Multiflora, 2 to 3 mm., 2.50 18.00

490 Rosa Rugosa (mixed), 1-yr. adigs., 5.50 45.00

5000 Thuja Occidentalis, 2-yr., grafting size, 7.00 60.00

1400 Thuja Occidentalis Nigra, 3-yr., TT, FR, 70.00 600.00

2000 Thuja Occidentalis, Pyramidalis, 2-yr., G, FR 70.00 600.00

3000 Thuja Orientalis Aurea Nana (Biota), 2-yr., G, FR 60.00 500.00

T—Once Transplanted; TT—Twice Transplanted; FR—Field Row.

BOULEVARD NURSERIES

Newport, R. I.

LINE-OUTS—OUTSIDE-GROWN

Winter-Hardened—Fully Acclimated

25 at 100 rate

Chittamwood, rare tree, 1-yr. adigs., \$10.00

Hardy Chinaberry, 6 to 12 ins., 9.00

Unusual Red Firethorn, 5 to 11 ins., 20.00

Mimosa Silk Tree, 6 to 13 ins., 8.00

Sycamore Maple, rare, 4 to 10 ins., 9.00

May Tree, attractive, 6 to 12 ins., 10.00

Flowering Oriental Cherry, 10 to 15 ins., 20.00

Pendula Bald Cypress, 1 to 2 ft., 15.00

White Oak, dense foliage, 6 to 12 ins., 6.00

American Filberts, bear early, 8 to 12 ins., 15.00

Big Shellbark Hickory, 6 to 10 ins., 12.00

Giant Shagbark Hickory, 6 to 10 ins., 12.00

Scaly-bark Hickory, 6 to 10 ins., 12.00

Biota Orientalis Compacta, 6 to 10 ins., 10.00

Biota Orientalis Compacta, 1-yr. adigs., 6.00

White Pine, 1-yr. adigs., 6.00

Austria Pine, 1-yr. adigs., 6.00

Scotch Pine, 1-yr. adigs., 6.00

Yuccas, 3 hardy evergreen types, asstd., 12.00

Siberian Fox Shrub, 6 to 12 ins., 8.00

	Per 100	Per 1000
Acer Palmatum, 1-yr. S.	\$5.00	\$50.00
Biota Orientalis, 2-yr. S.	3.50	30.00
Chamaecyparis Obtusa, 2-yr. S.	3.00	25.00
Cryptomeria Japonica, 2-yr. T.	6.00	50.00
Ilex Crenata, 2-yr. S.	10.00	90.00
Picea Alba, 2-yr. S.	3.50	30.00
Picea Canadensis, 2-yr. S.	3.50	30.00
Picea Engelmanni, 2-yr. S.	3.50	30.00
Picea Excelsa, 3-yr. S.	3.50	30.00
Picea Pungens Glauca, 2-yr. S.	3.50	30.00
Pinus Austriaca, 2-yr. S.	7.00	60.00
Pinus Denifolia, 2-yr. S.	6.00	50.00
Pinus Mugo, 2-yr. S.	5.50	50.00
Pinus Strobus, 2-yr. S.	3.50	30.00
Pinus Sylvestris, 2-yr. S.	3.00	25.00
Syringa Vulgaris, 1-yr. S.	3.00	25.00
Tsuga Canadensis, 2-yr. T.		
4 to 6 ins.	9.00	80.00
From Holland Import.		
Rhod. Hybr., named var.		
1-yr., grafted	\$ 75.00	\$750.00
2-yr., grafted	150.00	
Azalea Mollis, named var.		
6 to 8 yrs., field-grown	75.00	
Viburnum Carlesii, 1-yr.		
field-grown, grafted	75.00	

Full list on request.
VERKADE'S NURSERIES, WAYNE, N. J.

LINER LIST February 12, 1953 F.O.B. Scottville, Tex.

	Each
10,000 Irish Juniper, 2½-in. pots.	150
1,000 Baker Hybrid Arborvitae, 2½-in. pots.	150
1,000 Bluecone Arborvitae, 2½-in. pots.	170
2,000 Golden Bonita Arborvitae, 2½-in. pots.	170
3,000 Goldcone Arborvitae, 2½-in. pots.	170
1,000 Boxwood Semipervirens, 2½-in. pots.	150
2,000 Hume Holly No. 2, 2½-in. pots.	150
1,000 Vase-shape Juniper, 2½-in. pots.	150
500 Loropetalum, 2½-in. pots.	150
5,000 Pineapple Guava, 2½-in. pots.	150
2,000 Sweet Gum Liners, 2½-in. pots.	150
Out-grown liners—Hardy climate built right in. These plants are ready now and can be shipped soon as we hear from you. We recommend express delivery. These prices include packing in paper pots on 100 per carton. Your order will be given prompt attention.	

VERHALEN NURSERY CO.
Scottville, Tex.

POTTED GRAFTS FOR SPRING, '53

	Per 100	Per 1000
Acer Palmatum Atropurpureum	\$65.00	
Acer Palmatum Dissectum		
Atropurpureum	65.00	
Cornus Florida Pendula	50.00	
Cornus Florida Rubra		
Atropurpureum	50.00	\$450.00
Cornus Florida Rubra Prosser	65.00	
Cornus Florida Welchii	60.00	
Cryptomeria Japonica Lobbi	50.00	
Magnolia Stellata	55.00	
Tsuga Canadensis Pendula	50.00	

TRANSPLANTS		
Pieris Japonica, 4 to 6 ins.	15.00	125.00
Ilex Convexa (Bullata), 2½-in. pots.	15.00	125.00
Ilex Convexa, 4 to 6 ins.	35.00	
Ilex Convexa, 3-yr., 8 to 10-in. spread.	45.00	

Prices are F.O.B. Pompton Plains, N. J. No packing charges. Subject to prior sale and crop conditions. 25 per cent deposit, balance before shipment.

RUMMEL NURSERIES
Pompton Plains, N. J.

Evergreen liners in wood plant bands. For field planting.

	Each
PFITZER JUNIPER, 6 to 8 ins.	\$0.14½
8 to 10 ins.	.20
10 to 12 ins.	.25

GOLDEN PFITZER JUNIPER		
8 to 10 ins.	.20	
GREEK JUNIPER (Excelsa stricta), 8 to 10 ins.	.20	

ANDORRA JUNIPER (Horizontalis plumosa)		
8 to 10 ins.	.20	
10 to 12 ins.	.25	

ASHFORD JUNIPER		
10 to 15 ins.	.20	
EUONYMUS COLORATUS, 6 to 10 ins., RC, 1-yr.	.05	

EUONYMUS PATENS		
Small leaf	.14½	

Prices are for 300 or more, total order. Less than 300, 2c more per plant.
Book your order for spring.
McNINCH GREENHOUSES
St. Joseph, Mo.

LINING-OUT STOCK		
Hydrangea P.G., No. 1 layers	\$8.00	per 100
	6.00	per 1000

Large-flowering type
CHAMPION NURSERIES
Perry, O.

See our Classified Ad in this issue under

EVERGREENS

T. G. OWEN & SON, INC.
Columbus, Miss.

BARR & LEICHHARDT NURSERY

Nashville, Rd.
Bowling Green, Ky.

POTTED LINING-OUT STOCK

200 Abelia Edward Goucher	\$0.12
279 Abelia Grandiflora	.12
400 Berberis Julianae	.12
400 Elaeagnus Pungens	.12
150 Elaeagnus Umbellata	.12
500 Euonymus Fortunei Radicans	.12
857 Euonymus Klatschovicus (patens)	.12
50 Hydrangea P. G.	.12
422 Ilex Burfordi	.15
600 Ilex Crenata	.12
125 Ilex Opaca x Howardi	.15
11 Ilex Opaca x Howardi	.15
500 Jasminum Floridum	.12
55 Laurocerasus Schipkaensis	.20
200 Magnolia Grandiflora	.20
220 Myracantha (red berry)	.12
200 Pyracantha Coccinea Lalandi	.12
500 Pyracantha, spreading	.12
100 Viburnum Burkwoodi	.15

LINING-OUT STOCK

Nice, sturdy plants out of 2½-in. pots.	
Golden Berckmans Arborvitae	\$17.50 per 100
Excelsa Arborvitae	17.50 per 100
Golden Bonita Arborvitae	18.00 per 100
Green Bonita Arborvitae	17.50 per 100
Blue Spire Arborvitae	17.50 per 100
Von Ehron Juniper	18.00 per 100
Primrose Jasmine	12.00 per 100
Small-leaved Yew	17.50 per 100
Italian Cypress, 2½-in. pots.	18.00 per 100
Barbados Cherry, 2-in. pots.	15.00 per 100
Blue Vase Juniper, 2½-in. pots.	25.00 per 100
(Blue Star)	
Wax Ligustrum, 2½-in. pots.	12.50 per 100

BRADSHAW'S NURSERY
League City, Tex.

PEONIES

PEONIES. Strong 3 to 5-eye, dormant roots. From young blocks, correctly labeled. 5 of a variety at the 10 rate; 25 of a variety at the 100 rate.

	10	100
50 Albiflora, white, single	\$4.50	\$40.00
150 Baroness Schroeder, white	4.50	40.00
125 Claire Dubois, light pink	4.00	35.00
250 Felix Crousse, red, early	4.50	40.00
50 Frankie Curtis, white, large	8.00	75.00
50 Grandiflora, pink, late	4.50	40.00
100 Lady A. Duff, blush-pink	4.50	40.00
90 Mad. Gauthier, pink, single	5.50	50.00
10 Martha Bulloch, pink, large	7.50	70.00
150 Mikado, crimson, single	5.00	45.00
40 Mme. Emile Lemoine, white	4.00	35.00
50 Mme. Jules Dessert, white	5.00	45.00
150 Modele de Perfection, pink	4.00	35.00
150 Modeste Guen, pink, early	4.00	40.00
50 Therese, satiny pink	6.00	55.00
150 Walter Faxon, vivid pink	5.00	45.00

CUNNINGHAM GARDENS, INC.

Waldron, Ind.

ROOTED CUTTINGS

Rooted Cuttings, Transplanted in Flats, 1-yr.		
	Per 100	Per 1000
Azalea Hinodogiri, 4 to 6 ins.	\$15.00	\$125.00
Azalea Hini-Crimson, 4 to 6 ins.	15.00	125.00
Azalea Mucronulatum (from seed), 4 to 6 ins.	15.00	125.00
Ilex Opaca, 4 to 6 ins.	20.00	
Pieris Japonica, 4 to 6 ins.	15.00	125.00

VAN DINE NURSERY

Berdan Ave. Preakness, N. J.

ROSEBUSHES

We offer strong, finely rooted (for easy potting), well-grown and well-cared-for 2-year field-grown roses. Stored in our own modern cold-storage plants, for immediate or later shipment, as desired.

Priced:		
2-yr., No. 1	\$50.00 per 100	\$450.00 per 1000
2-yr., No. 1½	40.00 per 100	350.00 per 1000
Our No. 1½ grade fine for potting.		

RED		
Ami Quinard	F. K. Druschki	
Grenoble	K. A. Viktoria	

TWO-TONE		
Red Radiance	Conde de Sastago	
Rouge Mallerin	Pres. Hoover	
	Talisman	

PINK		
Betty Uprichard	Blaze	
Editor McFarland	Cl. American Beauty	
Pink Radiance	Cl. Talisman	
Picture	Paul's Scarlet	

YELLOW		
Golden Charm	Gold Rush	
Golden Dawn	New Dawn	
Yellow Conde	Cl. ETAIN RD	

PATENTED ROSES, 2-YR., NO. 1		
	Per 10	Per 100
Buccaneer	\$14.00	\$125.00
Bush Festival, red thornless	10.00	80.00
Cl. Festival, red thornless	10.00	80.00
Cl. Floradora	12.00	100.00
Cl. Peace	14.00	125.00
Crimson Glory	10.00	90.00
Helen Traubel	14.00	125.00
Mirandy	11.00	95.00
Mission Bella	12.00	100.00
Nocturne	10.00	90.00
Peace	14.00	125.00
Pillar Stratford (everblooming climber)	10.00	90.00
Sutter's Gold	12.00	100.00

THE KRUMHOLTZ NURSERIES, INC.

Middlebury, Ind.

ROSES

Delaware and California-Grown.
Vigorous, well-rooted, plump plants, graded here at Selbyville, in accordance with A. A. N. standards. These roses will please both you and your customers. Available for shipment as desired from our modern cold storages equipped with ultraviolet ray lamps.

(Price per plant, No. 1 grade)
Variety and Patent No. 10-19 20-99 100-249 plants/plants/plants

Capistrano, No. 992	\$1.25	\$1.12
Charlotte Armstrong, No. 455	1.10	1.00
Crimson Glory, No. 105	1.00	.88 \$0.50
Diamond Jubilee, No. 824	1.10	1.00 .85
Eclipse, No. 172	1.00	.88 .80
Ernie Fyle, No. 673	1.00	.88 .80
Forty-Niner, No. 792	1.25	1.13 1.05
Fred Howard, No. 1006	1.40	1.25 1.20
Helen Traubel, No. 1028	1.50	1.38 .80
Mission Bella, No. 923	1.25	1.13 1.05
Mirandy, No. 632	1.10	1.00 .95
New Yorker, No. 823	1.10	1.00 .95
Peace, No. 591	1.40	1.25 1.20
Rex Anderson, No. 345	1.00	.88 .80
Rubaiyat, No. 758	1.00	.88 .80
Sunset Glory, No. 738	1.00	.88 .80
Tafteta, No. 716	1.00	.88 .80

Climbers:

Climbing Peace, No. 932	1.40	1.25 1.20
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Floribundas:

Fashion, No. 789	1.10	1.00 .95
Pinocchio, No. 484	.90	.75 .70
Vogue, No. 926	1.25	1.13 1.05
World's Fair, No. 362	.90	.75 .70

NOTE: Practically all varieties of Patented Roses listed above are also available in 1½ grade, at a reduction of 20 per cent in price.

STANDARD ROSES

Heavy, 2-yr., No. 1 grade, \$6.50 per 100; \$60.00 per 1000.

Hybrid Teas:

Reds: Ami Quinard, Etoile de Hollande, Poinsettia, Red Radiance.
Pink: Editor McFarland.

White: E. A. Viktoria, Mme. Jules Bouche.
Yellow: Golden Dawn, Golden Charm, Joanna Hill, Yellow Conde.

Two-tone: President Hoover, Talisman, Conde de Sastago.

Hybrid Perpetual:
America Beauty.

Climbing Hybrid Teas:
Cl. Joanna Hill, Cl. Caledonia, Cl. Conde de Sastago, Cl. Etoile de Hollande, Cl. Pink Radiance, Cl. Red Radiance, Cl. Talisman, Cl. K. A. Viktoria, Cl. Golden Charm, Cl. Golden Sastago.

Common Climbers:
Cl. Blaze, Cl. Paul's Scarlet, Cl. American Beauty, Cl. Primrose.

BUNTINGS' NURSERIES, INC.

Box 3 Selbyville, Del.

ROSES

We have a nice selection of 2-year field-grown roses. Ready for shipment at once.

	100-300	300-1000
No. 1	\$0.55	\$0.45
No. 1½	.40	.35

REDS		
Ami Quinard	Briarcliff	
E. G. Hill	Editor McFarland	
Etoile de Hollande	Pink Radiance	
Grenoble	The Doctor	

YELLOW		
Poinsettia	Golden Charm	
Rouge Mallerin	Golden Dawn	
Red Radiance	Luxembourg	
Red Talisman	McGredy's Yellow	

MULTICOLOR		
Conde de Sastago	Sœur Therese	
Countess Vandal	WHITE	
Hoover	Caledonia	
Talisman	K. A. Viktoria	

CLIMBERS		
Blaze	Cl. Red Radiance	
Paul's Scarlet		

CALIFORNIA-GROWN ROSES		
No. 1	10-50	100-300
No. 1½	\$0.65	\$0.60
No. 2	.55	.50
	.50	.45

PINK		
Ami Quinard	Briarcliff	
Better Times	Editor McFarland	
Christopher Stone	Picture	
Etoile de Hollande	Pink Dawn	
Grenoble	Pink Radiance	
McGredy's Scarlet	The Doctor	
Poinsettia	WHITE	
Red Radiance	Caledonia	
YELLOW	F. K. Druschki	
Golden Dawn	K. A. Viktoria	
Golden Rapture	Conde de Sastago	
McGredy's Yellow	Countess Vandal	
Mrs. P. S. du Pont	Talisman	
Sœur Therese		

Terms—Net cash with order.
BAKER BROS NURSERY

P. O. Box 823 Phone VI-2222
105 N. Chandler Fort Worth, Tex.

ROSA MULTIFLORA (Thorny Type)		
1 to 3 mm., 6 to 9 ins.	\$2.00 per 100	\$14.00 per 1000
3 to 12 mm., 9 to 14 ins.	\$3.50 per 100	\$30.00 per 1000

Due to heavy stock, all 3 to 12 mm. are tied in bundles of 50. Sample \$3.00.

Free packing for cash.
LESLIE NURSERY

2 N. School St. Manchester, Conn.

ROSES—Continued

MARTIN'S ROSE NURSERY

BETTER ROSEBUSHES FOR LESS MONEY

Wholesale Only
Lists now readyNurserymen, Florists & Dealers
P. O. Box 155, Arp, Tex.

NEW LONDON ROSES

The Nursery
THAT
Quality Built.

List mailed promptly to the trade.

P. O. Box 876 Overton, Tex.

ROSEBUSHES

2-yr. plants, grown right, graded right, packed right. Very complete assortment of varieties. Write for prices and book your requirements now.

ROSEMONT NURSERIES

D. L. Thompson, Mgr. Tyler, Tex.
ROSEBUSHES: Good assortment of hybrid trees. No. 1 grade, 40c; No. 1½ grade, 30c on 250 up. List on request.TATE NURSERY Tyler, Tex.
Route 3

SEEDLINGS

	Per 100	Per 1000
American Arborvitae (Ocell-dentata), 2-yr. S., 4 to 8 ins.	\$ 6.25	\$36.75
American Red Pine,	9.75	48.75
3-yr. S., 6 to 12 ins.		
Mugho Pine (Certified Tyrolean seed), True dwarf, 2-yr. S., 2 to 5 ins.	5.75	35.75
Rocky Mt. Juniper (Scopulorum), 3-yr. S., 6 to 12 ins. 12.50		
Colorado Blue Spruce (Seed hand-picked from blue trees); 3-yr. S., 4 to 8 ins.	9.75	49.75

TERMS—Remittance with order. Packing free. Parcel post prepaid. Send for price list.

NEUNER'S EVERGREEN NURSERY

Elcher Road, R. D. 3, Emaworth 2, Pa.

SEEDLINGS

	Per 100	Per 1000
Laurocerasus Caroliniana (Cherry Laurel) in	\$2.50	\$17.50
4 to 6 ins.	3.50	25.00
8 to 12 ins.	5.00	45.00

HEX SEEDLINGS

	Per 100	Per 1000
Hex Vomitoria (Yaupon Holly) in	\$ 5.00	\$45.00
8 to 12 ins.	7.00	60.00
12 to 18 ins.	10.00	80.00

Write for prices on surplus Camellias.

GIRLING'S NURSERY CO.

Holmesville, Miss.

CHRISTMAS TREE SEEDLINGS

	Per 100	Per 1000
SCOTCH PINE	\$1.00	\$8.00
2 to 8 ins.	\$8.00	\$7.50

Bed run, well-rooted.

Cash with order, postage collect.

ROLLING ACRES NURSERY

Rt. R. 4 Holland, Mich.

EVERGREEN SEEDLINGS

	Per 100	Per 1000
2-yr. Seedlings	100	1000
Colo. Blue Spruce, 2 to 4 ins.	\$3.00	\$20.00
Eng. Blue Spruce, 2 to 4 ins.	3.00	20.00
Norway Spruce, 2 to 6 ins.	3.00	20.00
Scotch Pine, 4 to 8 ins.	4.00	25.00
Austrian Pine, 3 to 5 ins.	4.00	25.00

Cash with order. Packing free.

ARTHUR CASH NURSERY

Angola, N. Y.

SEEDLINGS—Bed-grown in soil prepared to produce fibrous root systems. We bundle and pack them to reach you in fine condition.

BIOTA ORIENTALIS. Per 1000
2-yr., 10 to 14 ins. \$30.00
1-yr., 3 to 5 ins. 15.00
JUNIPERUS VIRGINIANA.
1-yr., 3 to 6 ins. 25.00SOUTHERN NURSERY
Rt. 7, Box 254A Okla. City, Okla.

CARAGANA ARBORESCENS

	Per 100	Per 1000
14,000 3/16-in. cal., 12 to 15 ins.	\$2.50	\$22.00
9000 5/32-in. cal., 9 to 12 ins.	1.75	15.00

KROH BROS. NURSERIES
Loveland, Colo.

SCOTCH SEEDLINGS—3-yr. old, 6 to 10 ins. \$20.00 per 1000; 10 to 16 ins. \$22.00 per 1000. All stock state and federal inspected and approved. Special discounts on large quantities.

COOKS NURSERY

Box 238 Rimersburg, Pa.

NANDINA DOMESTICA
Strong seedlings, ready for pots or beds,
\$30.00 per 1000, 500 minimum. Cash, please.

SKYLINE GARDENS

Box 3316 Birmingham, Ala.

1-yr. AZALEA MOLLIIS seedlings, \$10.00
per flat, average 300 per flat.

JOHN WIGMORE

Norman Ave. at Cambridge Station
Riverside Park Riverside, N. J.

SEEDS

Popular nursery items.

	Per 1/4 lb.	Per lb.
Arborvitae, Oriental	\$0.60	\$ 1.50
Arborvitae, Oriental, Compacta . . . . .	.80	2.25
Arborvitae, Oriental, Pyramidalis . . . . .	.80	2.25
Cypress, Arizona . . . . .	.90	2.50
Flr. Concolor	1.65	4.50
Ginkgo	1.00	1.00
Juniperus Communis, upright . . . . .	.70	2.00
Juniperus Scopulorum		
northern, clean	1.65	4.50
Juniperus Virginiana, clean	1.25	3.75
Juniperus Virginiana, Platte		
River, 90 per cent sound	1.75	5.00
Pine, Austrian . . . . .	.80	2.35
Pine, Monterey . . . . .	.90	2.50
Pine, Mugho, lowland	1.10	3.00
Pine, Mugho, dwarf, mountain		
seed	1.85	5.25
Pine, Ponderosa, hardy	1.40	4.00
Pine, Red (resinosa)	7.20	20.00
Pine, Scotch, fast-growing		
green strains	1.65	4.50
Pine, Scotch, northern, rigensalis	4.50	12.00
Pine, White	1.00	2.75
Spruce, Black Hills	5.20	14.00
Spruce, Colorado	2.75	7.50
Spruce, Colorado Blue	3.60	10.00
Spruce, Engelmann Blue	3.10	8.50
Spruce, Norway, fast-growing	1.20	3.50
Spruce, Norway, windburn-resistant		
northern	1.65	4.50
Spruce, White (canadensis		
or glauca)	1.40	4.00
Ash, Green . . . . .	.70	2.00
Birch, European, white, clean . . . . .	.80	2.25
Broom, Scotch . . . . .	.60	1.50
Dogwood, Flowering, New		
England, D.B. . . . .	.90	2.50
Dogwood, Flowering, middle Atlantic		
states, clean . . . . .	.90	2.50
Gum, Black (Nyssa), clean	1.10	3.00
Hawthorn, English	1.00	1.00
Honeysuckle, Tartarian	1.55	4.25
Locust, Black	1.00	1.00
Locust, Honey . . . . .	.90	1.00
Locust, Honey, thornless	1.00	1.00
Maple, Ash Leaf . . . . .	.65	1.75
Maple, Norway	1.00	1.00
Maple, Sugar . . . . .	.65	1.75
Mulberry, Russian	1.75	5.00
Persimmon, Native	1.00	1.00
Redbud, American	1.00	2.75
Redbud, Chinese	1.65	4.50
Tulip Tree, Southern	1.00	1.00
Tulip Tree, Northern . . . . .	.60	1.50
Apple, French Cider Crab	1.25	1.00
Cherry, Mazzard, imported . . . . .	.60	1.50
Cherry, Mazzard, imported . . . . .	.60	1.50
Pear, Common	1.20	3.50
Plum, American	1.35	1.00
Plum, Myrobalan	1.00	1.00

P. O. B. 131 Jamaica Plain 30, Mass.

LAWN SEED

at wholesale prices for landscape gardeners,
cemetery, contractors, etc.

	50 lbs. 100 lbs.
Landscape Gardeners' Mixture	\$32.00 \$62.00
Cemetery Mixture	37.00 71.00
Contractors' Mixture	16.00 30.00

F.O.B. New York. 300 lbs. freight paid.

Send for complete list. Also prices for seed
packed in colored bags suitable for resale.

HERBST BROTHERS

678 Broadway, New York 12, N. Y.

"PURE KY." BLUE GRASS LAWN SEED

Extra-good quality, grown in the heart of
the Blue Grass country.10 lbs. \$7.50; 25 lbs. \$16.75; 50 lbs. \$32.00;
100 lbs. \$60.00. All F.O.B. Subject supply on
hand. Order yours now.WALNUT LAWN FARM (Est. 1841)
Route 2F Lexington, Ky.

ASPARAGUS SEED

	Per lb.
Mary Washington	\$1.30
ROBERTS SPECIAL STRAIN	7.00
California No. 500	2.65
Paradise	1.70

F.O.B. New York.

Commercial growers ask for quantity prices.

HERBST BROTHERS

678 Broadway New York 12, N. Y.

SHRUBS and TREES

ULMUS PUMILA (Chinese Elm Liners)

	Per 100	Per 1000
6 to 12 ins.	\$1.50	\$10.00
12 to 18 ins.	2.00	15.00
18 to 24 ins.	3.00	25.00
2 to 3 ft.	4.00	35.00

GRUNDY'S GARDENS
Anton, Tex.

Abelia Grandiflora, 1-yr. T.	10	100
Arborvitae Boothii (Best Globe).		\$12.00
4 to 6 ins. X.	\$2.00	17.50
Arborvitae Globosa, 4 to 6 ins. X.	2.00	17.50
Arborvitae Nigra, 4 to 6 ins. X.	2.00	17.50
Arborvitae, Hills, R. C.		8.00
Arborvitae, Hills, 4 to 6 ins. X.	2.00	17.50
Arborvitae Pyramidalis, R. C.		8.00
4 to 6 ins. X.	2.00	17.50
6 to 8 ins. X.	3.00	22.50
Arborvitae, Siberian, 4 to 6 ins. X.	2.00	17.50
Arb. Romita, 4 to 6 ins. X.	2.00	17.50
Roxwood, Japanese, 2-yr. R. C.		8.00
6 to 8 ins. X.	2.00	16.50
8 to 10 ins. X.	3.00	27.50
10 to 12 ins. X.	3.75	32.50
Buxus Sempervirens		2.00
6 to 8 ins. X.	2.50	22.50
Buxus Sempervirens		15.00
4 to 6 ins. X.	17.50	
6 to 8 ins. X.	22.50	
Hex Convexa (Box Leaf Holly).		8.00
4 to 6 ins. X.	17.50	
6 to 8 ins. X.	25.00	
Hex Crenata, R. C.		8.00
4 to 6 ins. X.	17.50	
10 to 12 ins. X.	45.00	
Hex Rotundifolia, R. C.		8.00
Hex Rotundifolia, 4 to 6 ins. X.	2.00	17.50
Juniper, Andorra, 4 to 6 ins. X.	2.50	22.50
8 to 10 ins. X.	3.00	25.00
Juniper, Hetz, R. C.		9.00
Juniper, Hetz, 4 to 6 ins. X.	2.00	17.50
Juniper, Pfitzer, Compact		3.25
6 to 8 ins. X.	30.00	
Retinospora Obtusa Crippsi, R. C.		8.00
Retinospora Obtusa Crippsi		2.00
4 to 6 ins. X.	17.50	
Retinospora Plifera Aurea		2.00
4 to 6 ins. X.	17.50	
Retinospora Plumosa		2.00
4 to 6 ins. X.	17.50	
Retinospora Squarrosa		2.00
4 to 6 ins. X.	17.50	
Taxus Capitata (From Seed).	3.25	27.50
4 to 6 ins. X.	2.00	17.50
Taxus Cuspidata, 4 to 6 ins. X.	2.00	17.50
Taxus Hatfieldi, 4 to 6 ins. X.	2.00	17.50
Taxus Hicksi, 4 to 6 ins. X.	2.50	18.50
Taxus Vermuelen, 4 to 6 ins. X.	2.25	17.50
Taxus Vermuelen, 6 to 8 ins. X.	3.50	22.50
Taxus Browni, 4 to 6 ins. X.	2.25	17.50
Taxus Browni, 6 to 8 ins. X.	3.50	22.50

ESHAM'S NURSERIES

Frankford, Del.

QUALITY LINERS

	Each
AZALEAS	
Rosaeflora, 2 to 4-in. spread	\$ 0.25
Gumpo, 2 to 4-in. spread . . . . .	.25
Mollis Flame, 2 to 4-in. spread . . . . .	.25
Mollis Flame, 4 to 6-in. spread . . . . .	.40
Mollis Cream, 4 to 6-in. XX, budded . . . . .	.40
Daphne Cneorum . . . . .	.12
Daphne Mezereum Rubra, 4 to 6 ins. . . . .	.12
6 to 8 ins. . . . .	.15
8 to 10 ins. . . . .	.20

HEATHER

Carnea Rosea, 2 to 4 ins. X. . . . .	.15
King George, 2 to 4 ins. X. . . . .	.15
Medit. Alba, 2 to 4 ins. X. . . . .	.12
Medit. Hybrid, 2 to 4 ins. X. . . . .	.12
Mrs. J. H. Beale, 2 to 4 ins. X. . . . .	.15
Mrs. Maxwell, 2 to 4 ins. X. . . . .	.15
Springwood, white, 2 to 4 ins. X. . . . .	.15
Juniperus Tamariscifolia . . . . .	.10
2 to 4 ins. X. . . . .	.15
4 to 6 ins. X. . . . .	.18
6 to 8 ins. X. . . . .	.18
Lily of the Valley pips, per 1000	\$35.00
Raphiolepis Ovata, 2-yr. X. . . . .	.15
Skimmia Japonica, 4 to 6 ins. X. . . . .	.15
Skimmia Japonica, variegated . . . . .	.15
4 to 6 ins. X. . . . .	.15
Thuja Pyramidalis, 4 to 6 ins. X. . . . .	.15
Thuja Woodwardi Globosa . . . . .	.12
2 to 4 ins. X. . . . .	.14
4 to 6 ins. X. . . . .	.10
Viburnum Burkwoodi, 2 to 4 ins. . . . .	.10
Viburnum Davidi, 2 to 4-in. spread . . . . .	.75
4 to 6-in. spread . . . . .	.75
6 to 8-in. spread	1.00
Retinospora Obtusa Crippsi . . . . .	.45
10 to 12 ins. X. . . . .	.35
Chamaecyparis Lawsoniana Stewarti . . . . .	.35
10 to 12 ins. X.	

Cash with order, please.

FOUR STAR NURSERY

Route 3, Box 3529 Edmonds, Wash.

NURSERY STOCK

	Per 100	Per 1000
Acer Palmatum (green-leaved Japanese Maple), 1-yr. seedlings, 4 to 10 ins.	\$ 6.00	\$ 50.00
Beach Plum, strong 1-yr. seedlings, 10 to 18 ins.	10.00	75.00
Biota Orientalis, 2-yr. seedlings	5.00	30.00
6 to 12 ins.		
Cotoneaster in varieties (see our display ad)		
Larix Leptolepis, 2-yr. seedlings, 10 to 15 ins.	12.00	100.00
Magnolia Soulangiana, 1-yr. tr., cuttings, 5 to 8 ins.	55.00	500.00

C. HOOGEENDOORN
Turner Road Newport, R. I.

HIBISCUS—Mallows. Henderson's Giant Hybrids. Hardy anywhere. 6 to 12-in. blooms. Mixed colors, heavy-blooming stock. Doz., \$4.00; 100, \$20.00; 1000, \$150.00. Liners of the above: 100, \$5.00; 1000, \$40.00. NEW. Henderson's Giant and Red Glory Hybrids. Tall-growing. Beautiful shades of red and pink. No whites. 100, \$10.00.

ALTHAEA—Five outstanding new doubles of excellent beauty. Hardy anywhere. All guaranteed blooming stock. These are 10 to 12-in. liners. If interested in larger sizes and other plants send for list.

EFFIE RIEGEL, double snow-white \$1.50 10.00
PINK DELIGHT, double shell-pink 1.50 10.00
COLIE MULLINS, double wine-red 1.50 10.00
KREIDER BLUE, a fine double blue 2.50 15.00
BETTY KURTZ, wine-red with deep red center. Has remarkable beauty 2.50 15.00
WATER OAKS—*Quercus nigra*. An old favorite, well-branched, good roots. 9 to 12 ft., \$30.00 per doz. Send for list for other sizes.

TEXAS UMBRELLA CHINAS—Melia Azedarach Umbracliformis. Bright clean stock. 15 to 18 ins., 100, \$10.00; 30 to 40 ins., 100, \$15.00.

MIMOSA OR SILK TREE—*Albizia julibrissin*. Ideal stock. 6 to 10 ins., 100, \$2.50; 12 to 18 ins., 100, \$3.00; 1000, \$25.00. 24 to 30 ins., 100, \$4.00; 1000, \$35.00. 50 at 100 rate, 500 at 1000 rate.

HEAVY TRANSPLANTS
 6 to 8 ft., branched \$12.00 doz.
 9 to 12 ft., branched 24.00 doz.
 12 to 14 ft., branched 32.00 doz.
RIEGLER PLANT CO. Experiment, Ga.

AZALEAS
 Transplanted rooted cuttings our specialty. Hinodegiri, *Amoenae*, *Indica*, *Alba* and named *Kaempferi* Hybrids, all colors. \$15.50 per 100; \$140.00 per 1000
 Hinodegiri and *Kaempferi* varieties.
 2-yr. bed-grown, 4 to 6 ins., B&B, .50c each
 3-yr. bed-grown, 6 to 8 ins., B&B, .70c each
 Field-grown varieties.
 Hinodegiri, Kurume varieties, *Kaempferi* and others, such as: Snow, Cleopatra, Othello, Betty, Mauve, Flame, Yodogawa, Indica, *Alba*, Hinomayo, Mary and Amoenae.
 12 to 15 ins., B&B \$2.00 each per 10
 15 to 18 ins., B&B 2.75 each per 10
 25 to 30 ins., B&B 3.25 each per 10

EVERGREEN ROOTED CUTTINGS FROM GREENHOUSE
Taxus, *Juniper pfitzeri*, *Juniper Hetzi*, *Juniper stricta*, *Arborvitae*, *Retinospora*, *Pyra-cantha*, *Ilex* and *Andromeda*.
 \$10.00 per 100; \$90.00 per 1000.

DOGWOODS (Young Specimen Material)
 White Dogwood. Each Per 10 Each Per 100
 4 to 5 ft., B&B \$4.75 \$4.25
 5 to 6 ft., B&B 6.00 5.00
 6 to 7 ft., B&B 8.50 7.00
 Pink Dogwood 3.50 3.25
 2 to 3 ft., B&B 6.00 6.50
 3 to 4 ft., B&B Each

Weeping Willow (*Salix Babylonica*)
 Well-formed trees, 10 to 12 ft., B&B, \$9.50
 The above prices are dug. F.O.B. our nursery.

DEKALB NURSERIES, INC.
 Box 67, Norristown, Pa.
 Phone: Norristown 5-1597

CHINESE BLIGHT-RESISTANT CHESTNUT TREES
 Per 10 Per 100 Per 1000

Regular-Grade Seedlings
 3-yr., 4 to 5 ft. \$13.00 \$110.00
 3-yr., 3 to 4 ft. 10.00 95.00 \$85.00
 2-yr., 2 to 3 ft. 8.00 75.00 650.00
 2-yr., 18 to 24 ins. 6.50 60.00 550.00
Commercial-Grade Seedlings (Light Grade)
 2-yr., 3 to 4 ft. 9.00 80.00 650.00
 2-yr., 2 to 3 ft. 7.00 60.00 540.00
 2-yr., 18 to 24 ins. 5.00 45.00 400.00

Lining-Out Stock, 2-yr.-old. Per 100 Per 1000
 Special, 12 to 18 ins.,
 4/16 to 6/16-in. cal. \$26.00 \$250.00
 No. 1, 12 to 18 ins.,
 3/16 to 4/16-in. cal. 18.00 175.00
 No. 2, 9 to 12 ins.,
 2/16 to 3/16-in. cal. 15.00 140.00
 No. 3, 6 to 9 ins.,
 about 2/16-in. cal. 11.50 105.00

Lining-Out Stock, 1-yr.-old
 No. 1, 12 to 18 ins.,
 3/16 to 4/16-in. cal. 15.50 145.00
 No. 2, 9 to 12 ins.,
 2/16 to 3/16-in. cal. 12.00 110.00
 No. 3, 6 to 9 ins.,
 about 2/16-in. cal. 8.00 75.00

THE GOLD CHESTNUT NURSERY
 Wholesale Grower
 Cowen, W. Va.

IBOLIM PRIVET
 This is extra-heavy Privet for immediate effect, which could be used for parkways or housing jobs. They are about 30 ft. wide.
 1 to 4 ft. \$75.00 per 100
 4 to 5 ft. 100.00 per 100

We cannot afford to sell small quantities of these and pack them. These are offered to be shipped by truck or car only.

C. HOOGEENDOORN
 Turner Road, Newport, R. I.

LANDSCAPE MATERIAL

Abies Balsamea, 6 to 8 ft.	Each	16.00
Althaea Syriacus (red), 6 to 8 ft.	Each	10.00
Amelanchier Canadensis, 12 to 14 ft.	Each	35.00
Cedrus Atlantica Glauca, 12 to 14 ft.	Each	200.00
Cercia Canadensis, 7 to 8 ft.	Each	8.00
Chamaecyparis Cripps, 7 to 8 ft.	Each	20.00
Cornus Florida, 10 to 12 ft.	Each	35.00
Cotoneaster Divaricata, 3 to 4 ft.	Each	4.40
Halesia Tetraptera, 10 to 12 ft.	Each	50.00
Juniperus Horizontalis, 4 to 5 ft.	Each	12.00
Juniperus Stricta, 3 to 4 ft.	Each	3.50
Magnolia Water Lily, 7 to 8 ft.	Each	50.00
Malus loensis Plena, 6 to 7 ft.	Each	10.00
Pinus Thunbergi, 7 to 8 ft.	Each	40.00
Spirea Vanhouttei, 4 to 6 ft.	Each	4.00
Syringa (hybrid seedlings), 4 to 5 ft.	Each	4.00
Taxus Capitata, 4 1/2 to 5 ft.	Each	20.00
Taxus Repandens, 4 to 5 ft.	Each	40.00
Thuja Douglasi, 9 to 10 ft.	Each	22.00
Thuja Rosenthali, 8 to 9 ft.	Each	16.00
Viburnum Carlesii, 3 to 4 ft.	Each	8.50

Shade Trees in Variety
GEORGE F. BLOOMER NURSERIES
 Route 69, Flemington, N. J. Tel. 155

SPRING BARGAINS

Seedlings	Per 100	Per 1000
Cherry Mahaleb		
No. 1—3/16 to 1/2-in. cal.	\$2.30	\$18.00
No. 2—1/2 to 3/16-in. cal.	1.75	14.00
No. 3—about 1/4-in. cal.	1.00	8.00
Chinese Elm		
Grade 6 to 12 ins.	1.00	6.00
Grade 12 to 18 ins.	1.50	12.00
Grade 18 to 24 ins.	2.00	15.00
Russian Olive		
Grade 6 to 12 ins.	1.50	12.00
Grade 12 to 18 ins.	2.50	28.00
Grade 2 to 3 ft.	5.00	42.00
American Elm		
Grade 6 to 12 ins.	.75	4.00
Caragana Arborea		
Grade 6 to 12 ins.	1.50	10.00
Grade 12 to 18 ins.	2.00	15.00
Immediate delivery. All prices quoted F.O.B. Manhattan, Kan. Boxing and baling extra at cost.		

ROGERS WHOLESALE NURSERY
 Box 122
 Winfield, Kan.

Immediate Delivery
 3-yr. Frame Transplants Per 1000
 850 Canadian Hemlock, 10 to 12 ins. \$200.00
 850 Canadian Hemlock, 8 to 10 ins. 175.00
 1350 Canadian Hemlock, 6 to 8 ins. 150.00
 2000 Taxus Cupidata, 8 to 12 ins. 350.00
 1000 Taxus Cupidata, 6 to 8 ins. 250.00
 500 Deutzia Gracilis, 1-yr. transplants 75.00
 7000 Taxus, assorted varieties, 3-yr. pots 350.00
 20,000 Taxus, assorted varieties, 2-yr. pots 250.00
 500 Pyr. Arbutifolia, 3-in. pots 350.00
 1000 Pyr. Arbutifolia, 2 1/2-in. pots 200.00
 500 Woodward Arbutifolia, 2 1/2-in. pots 200.00
 8500 Taxus Andersoni, unrooted, stripped 30.00
 2500 Taxus Cupidata, unrooted, stripped 30.00
HUMPHREYS LANDSCAPE SERVICE
 Mount Sterling, Ky.

Magnolia grandiflora, potted last spring, except the 2 1/2-in., which were done last August. Present seedling crop going to pots January 1, and will be ready March 15. Expect to fill orders for 2 1/2-in. until August potting exhausted, then start with January 1 potting.

	Per 100
2 1/2-in. pot, 2 ins. and up	\$15.00
3-in. pot, 6 to 10 ins.	20.00
4-in. pot, 8 to 12 ins.	35.00
4-in. pot, 12 to 18 ins. left	50.00

Gallon cans and larger at nursery.
 Per 100
 2-yr., row-run, 1 bed, 8 to 18 ins. \$20.00
 2-yr., row-run, 1 to 3 ft. 30.00
 2-yr., 12 to 18 ins. 25.00
 2-yr., 18 to 24 ins. 40.00
 2-yr., 2 to 3 ft. 50.00
 Cash with order and no charge for packing. Shipment of bare-root items until about April 10.
HARWELL NURSERY Van Buren, Ark.

CONTAINER-GROWN NURSERY STOCK
 Broad-leaved Evergreens, Conifers

	Lots of 100
Burfordi Holly, 18 to 24 ins.	\$1.25
Cherry Laurel, 12 to 18 ins.	.80
Waxleaf Ligustrum, 18 to 24 ins.	1.00
Euonymus japonica, 12 to 18 ins.	.80
Euonymus patens, 12 to 18 ins.	.80
Elaeagnus simuli, 12 to 18 ins.	.70
Cotoneaster parneyi, 2 to 3 ft.	.80
Hypericum, 12 to 18 ins.	1.00
Senecio, 12 to 18 ins.	1.00
American Holly, 12 to 18 ins.	.75
Pyraeantha, 2 to 3 ft.	1.10
Pineapple Guava, 18 to 24 ins.	.80
Arizona Cypress, 18 to 24 ins.	.80
Baker Arborvitae, 18 to 24 ins.	.75

Terms—Net cash with order.
BAKER BROS. NURSERY
 105 N. Chandler Fort Worth, Tex.
 Phone VI-2222 P. O. Box 825

Hardy northern-grown L. O. and finished stock, B&B Colorado Blue Spruce, Shrubs, Perennials, Hardy Ferns and Hedging.
THE PEQUOT NURSERIES, Brainerd, Minn.

FLOWERING SHRUBS
 Special prices on following extra-nice stock, packing additional.

Deutzia Pride of Rochester
 2 to 3 ft., \$20.00 per 100;
 3 to 4 ft., 30.00 per 1000.
Hibiscus syriacus: White, white with red center, double variegated.
 2 to 3 ft., \$17.50 per 100;
 3 to 4 ft., 22.50 per 100.

Other shrubs including *Forstythia spectabilis*, *Spiraea vanhouttei*, *Philadelphus*, *Kolkwitzia vitex*, *Weigela*, and *Cercia canadensis* trees available in young and vigorous but extra-heavy, large landscape sizes at reasonable prices. Order or send for list of Evergreens, Shrubs and Trees at once before spring growth starts.

THE TANKARD NURSERIES
 Exmore, Va.

OUR OWN GROWING
 Per 100

1000 Pfitzer Juniper, 24 to 30 ins.	\$375.00
100 Hetz Juniper, 24 to 30 ins.	375.00
100 Hetz Juniper, 18 to 24 ins.	350.00
50 Savin Juniper, 24 to 24 ins.	375.00
25 Globe Von Elron Juniper, 3 ft.	475.00
50 Magnolia Stellata, 3 to 4 ft.	600.00

Euonymus Patens
 Field-grown bare-root
 15 to 18 ins. \$50.00 per 100
 18 to 24 ins. 75.00 per 100

For Immediate Shipment
BRUENING'S NURSERIES
 Higginsville, Mo.

FLOWERING CRABS, PLUMS
 NEW, limited. Charlotte, Newlandiana, Prince Georges, Redfield, Redford; 2 to 3 ft., \$1.00; 3 to 4 ft., \$1.35.

Aldenharn, *Arnold*, *atrasanguinea*, *Dolgo*, *Zumi calocarpa*: 3 to 4 ft., 80c; 4 to 5 ft., \$1.00.
Eley, *Hopa*: 3 to 4 ft., 60c; 4 to 5 ft., 80c.
Thundercloud P.L. Plum: 4 to 5 ft., 80c; 5 to 6 ft., \$1.00.
 Whips 6 1/2 less. Prices are 10 rate. Packing at cost.

SIMPSON ORCHARD CO.
 Vincennes, Ind.

FOREST TREE SEEDLINGS (Collected)
 Sugar Maple Per 1000

4 to 6 ins.	\$10.00
6 to 12 ins.	20.00
12 to 18 ins.	40.00

White Birch (*Betula Populifolia*) 25.00
 2 to 3 ft. 35.00
 Good stock, carefully collected and well-packed.

Cash, please.
R. M. COLE Charlotte, Vt.

Box 37
 Each
 Per 100

Nandina, 18 to 24 ins.	1.10
Berkmans Golden Arborvitae	
24 to 30 ins.	\$2.00
30 to 36 ins.	2.50
Magnolia Grandiflora	
18 to 24 ins.	1.00
24 to 30 ins.	1.25
30 to 36 ins.	1.75

MUSKOGEE GREENHOUSES CO.
 1700-1900 Locust St. Muskogee, Okla.

Each
 Per 10 Per 100

Beauty Bush, 18 to 24 ins.	\$0.50	\$0.45
2 to 3 ft.	.60	.55
Lilac, <i>Rothomagensis</i>		
18 to 24 ins.	.40	.35
2 to 3 ft.	.50	.45
Rhubarb, Canadian, Strong divisions	\$25.00	

per 100, 300 or more at \$22.50 per 100. Cash. Packing free. F.O.B. Marshalltown.
WHEELOCK WILSON NURSERY
 Marshalltown, Ia.

BICOLOR (SHRUB) LESPEDEZA
 Heavy, row-grown, 3-yr.-old roots that will produce heavy seed crop Autumn of 1953.

100	\$7.50
1000	60.00
5000	275.00
10000	500.00

2500 at 5000 rate; 7500 at 10,000 rate.
 TERMS: 2 per cent discount, cash with order.
 C.O.D., 25 per cent with order.
GLENNDALE NURSERY
 Glendale, Md.

THORNLESS HONEY LOCUST
 Each

6 to 8 ft.	\$1.30
5 to 6 ft.	.80
4 to 5 ft.	.60

Write for quotations on orders of 1,000 or more. All prices quoted F.O.B. Lubbock. Tex. Cash or 25% with order. Balance C.O.D. Packing charged at actual cost.

HOLDEN DODSON NURSERY
 2004 29th St. Lubbock, Tex.

CHINESE ELM
 Per 10 Per 100

2 to 2 1/2-in. cal.	\$2.50	\$200.00
2 1/2 to 3-in. cal.	2.50	300.00
3 to 3 1/2-in. cal.	40.00	375.00

These trees are straight, well-branched and heavily rooted. Priced F.O.B. Loveland. Packing at cost and subject to prior sales.
KROHN NURSERIES
 Loveland, Colo.

SHRUBS and TREES—Continued

KALMIA LATIFOLIA	
RHODODENDRON MAXIMUM	
Cutback collected	
15 to 18 ins., B&B.....	\$0.65
18 to 24 ins., B&B.....	.70
24 to 30 ins., B&B.....	.75
We cannot ship these; they must be called for. Nursery located 3 1/2 miles south of Cherokee, North Carolina, Highway 441.	
SAUTER'S LANDSCAPE SERVICE	
Whittier, N. C.	

EUROPEAN WHITE BIRCH	
Well-branched, Transplanted	
Each	
160 18 to 24 ins.....	10c
200 2 to 2 1/2 ft.....	15c
200 2 1/2 to 3 ft.....	20c
150 3 to 3 1/2 ft.....	25c
No packing charge. Remit with order.	
R. BRUMOND SMITH NURSERY	
1201 E. 26th St. Muncie, Ind.	

SHRUB LINERS		Per 100	Per 1000
Aronia Arbutifolia Brilliantissima.			
8 to 12 ins., 1-yr. seedlings....	\$ 8.00	\$75.00	
4 to 6 ins., 1-yr. Seedlings....	4.00	35.00	
Deutzia Gracilis, 4 to 6 ins.....	10.00	90.00	
Forsythia Spring Glory.....			
4 to 6 ins.....	10.00	90.00	
2 to 4 ins.....	6.00	50.00	
(All above liners 200 at 1000 rate)			
FLANE VIEW NURSERY, NEWPORT, R. I.			

AMUR RIVER NORTH PRIVET	
Excellent stock, well-bred.	
Per 100	Per 1000
12 to 18 ins.....	\$3.00 \$20.00
18 to 24 ins.....	4.00 25.00
2 to 3 ft.....	5.00 30.00
3 to 4 ft.....	6.00 40.00
Orders filled promptly.	
TIDWELL NURSERIES	
Greenville, Ga.	

FLOWERING PEACH—Pink, Red, White	
Per 10 Per 100	
2 to 3 ft.....	\$ 5.00 \$45.00
3 to 4 ft.....	6.50 60.00
4 to 5 ft.....	8.00 75.00
5 to 6 ft.....	10.00 90.00
WAYNESBORO NURSERIES	
Waynesboro, Va.	

PAUL'S SCARLET THORN, 2-yr.,	
branched, 8 to 10 ft., \$1.75 each. EURO-	
PEAN WHITE BIRCH, 5 to 6 ft., branched,	
80c each in lots of 10 or more.	
VILLA NURSERIES	
Montavilla Sta. P. O. Box 5137	
Portland 16, Ore.	

PRIVET	
Thousands Amur River North 12 to 18 ins.,	
\$2.00 per 100; 2 to 3 ft., \$4.00 per 100; 4 to 6	
ft., \$5.00 per 100.	
Attractive price on 1000 or more lots.	
WOODLAWN NURSERY	
Greenville, Ga.	

VIBURNUM BURKWOODI, also called	
Gardenia-Scented Wonder shrub; we offer out	
of 2 1/2-inch pots, strong well-established	
plants at \$7.50 per 25; \$25.00 per 100; \$225.00	
per 1000.	
THE KRIDER NURSERIES, INC.	
Middlebury, Ind.	

LOMBARDY POPLAR LINERS	
3 to 4 ft.....	\$50.00 per 1000
4 to 5 ft.....	70.00 per 1000
5 to 6 ft., lightly br.....	90.00 per 1000
6 to 8 ft., heavy.....	60.00 per 100
PAUL'S NURSERY R. D. 3, Shelby, O.	

LOMBARDY POPLAR, 2 to 3 ft., \$5.00 per	
100; 4 to 5 ft., \$15.00 per 100; 6 to 8 ft.,	
\$25.00 per 100; 8 to 10 ft., 60c each.	
DEUTZIA PRIDE OF ROCHESTER, 4-yr.	
old, 3 to 4 ft., 60c each.	
PONZER NURSERY Rolla, Mo.	

BEACH PLUM	
Prunus Maritima Per 100	
18 to 24 ins., 2-yr. transplants.....	\$35.00
2 to 3 ft., 2-yr. transplants.....	45.00
C. H. STEELMAN FRUIT NURSERY	
R. D. 3 Princeton, N. J.	

SWEET GUM TREES	
2 1/2-in. pot-grown. Well-established, ready	
for delivery.	
\$15.00 per 100.	
VERHALEN NURSERY CO.	
Scottsville, Tex.	

Amur S. Privet, 1-yr. S., 18 to 24 ins.,	
\$10.00 per 1000. Biota Orientalis, 2-yr. S.,	
18 to 24 ins., B.R., 10c each.	
LUKE NURSERY Pauls Valley, Okla.	

EUONYMUS ALATUS COMPACTA	
1-yr. transplants, 4 to 7 ft., \$25.00 per 100	
C. HOOGENDOORN	
Turner Road Newport, R. I.	

Surplus Stock
can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads.

VEGETABLE PLANTS

WHOLESALE PRICE LIST, 1953		
Vegetable Plants.		
Plant variety	Date ready	Per 1000
Cabbage	Now	\$2.00
Collards	Now	2.00
Onion	Now	1.25
Lettuce	Now	3.50
Broccoli	March 15	3.50
Cauliflower	March 15	3.50
Pepper	April 15	4.00
Eggplant	April 15	4.00
Tomato	April 15	3.50
Hybrid Tomato	April 15	5.50

All above prices F.O.B. Albany.
Leading Varieties. Write for Catalog.
Large, Fresh Plants. Prompt Shipment.
Satisfaction Guaranteed. Write or Wire:
PIEDMONT PLANT CO.
Box 945, Albany, Ga.

ASPARAGUS	
1-yr. Well-formed and	
graded plants. Will dig as soon as weather	
permits.	
Per 100—\$2.00. Per 1000—\$12.00	
ROUDEBUSH GARDENS Rt. 3, Box 397	
Dayton 4, O.	

VEGETABLE ROOTS

ASPARAGUS ROOTS, 1-yr., No. 1.	
MARY WASHINGTON AND PARADISE.	
Chipman's strain Canada Red rhubarb.	
CHAPMAN'S BERRY FARM	
East Leroy, Mich.	
MARY WASHINGTON ASPARAGUS, 1	
and 2-yr. in any quantity for immediate or	
later shipment. Chipman Rhubarb No. 1 divi-	
sions, ship any time.	
C. D. WRIGHT Hamburg, Ia.	

VINES

Wistaria Sinensis (blue), strong 2-yr.	
grafts, field-grown. This is the true Sinensis	
which has the short truss and deeper color.	
It blooms heavily before any foliage appears	
and also blooms intermittently throughout	
the summer.	
Wistaria Rosea (pink), strong, 2-yr. grafts,	
field-grown. All these scions were taken from	
heavy-flowering plants.	
\$75.00 per 100.	
C. HOOGENDOORN Newport, R. I.	

HONEYSUCKLE	
Lonicera halliana Japonica	
Heavy 2, 3 and 4 yrs. No. 1 field plants,	
3 to 4 leads, 18 to 24 ins., carefully graded.	
\$4.00 per 100, \$30.00 per 1000.	
Lonicera sempervirens, Scarlet-red.	
Heavy 18 to 24 ins., \$10.00 per 100, \$80.00 per	
1000. No orders too large; immediate ship-	
ment.	

WOODLAWN NURSERY	
Greenville, Ga.	
Hall's Honeysuckle, large, extra-heavy, 2	
and 3-year plants, carefully graded, \$4.00 per	
100; \$30.00 per 1000. Good reduction on quan-	
tity orders. Immediate shipment.	
TIDEWELL NURSERIES, Greenville, Ga.	

SUPPLIES

BURLAP

NURSERY BURLAP	
Ready for prompt delivery. Burlap sheets	
sewed in continuous lengths. Accurately cut	
burlap squares for baling purposes. Mer-	
chandise made from selected, used burlap	
and burlap bags. No oily, smelly, or chemical	
stock. No old rag bags. All vacuum machine	
cleaned and holes sealed. Send for sample	
square and low prices.	
Orders taken now for Spring, 1953, delivery	
at present low prices.	
STERLING BAG & BURLAP CO.	
41 Carolina St. Buffalo 1, N. Y.	

BURLAP

Immediate attention to your inquiry.	
Squares, rolls, open mesh. Standard sizes	
or made to your specifications.	
Machine cleaned, prime select, new or used	
burlap.	
Prompt shipment.	
Spring bookings now being taken.	
Specialists to the nursery trade.	
SEAMAN BAG CO.	
2512 S. Damen Ave. Chicago 8, Ill.	
Virginia 7-6633	

We have a surplus of the following Do-
mestic Burlap Squares: 24x24 ins., 28x28 ins.
and 32x32 ins., which we will sell for con-
siderably less than the current market price.
We can also supply nurserymen with any
other desired types or sizes.
Prices submitted upon request.
Immediate shipment of any amount can
be made upon receipt of order.
HARRY STOLLER & CO.
40 Maple Street Chelsea 50, Mass.

AMERICAN NURSERYMAN

CLEMATIS MONTANA RUBENS	
(Pink-flowering Anemone clematis)	
Strong field-grown plants	
3 to 4 ft. staked	
\$100.00 per 100.	
C. HOOGENDOORN	
Turner Road Newport, R. I.	

WANTED

WANTED: For Spring Shipment.	
Lavandula Vera (Munstead Dwarf) lav-	
ender foliage, 4 to 5-in. plants; Pachysandra	
(Ground Cover), blue; Ligustrum Compac-	
tum, 18 to 24 ins.; Abelia, everblooming, pink-	
flushed, 18 to 24 ins.; Euonymus Patens	
(Spreading Euonymus), 15 to 18 ins.; Jas-	
minum Nudiflorum (Winter Jasmine), 18 to	
24 ins.; Nandina Domestica (Heavenly Bam-	
boo), 15 to 18 ins.	
Please send your wholesale price list to:	
L. E. STONE & CO., INC.	
P. O. Box 327 Lombard, Ill.	

WANTED

100 Koster's Spruce, 15 to 18 ins. high.	
100 Pin Oaks, 2 1/2 to 3-in. cal.	
Must be 2-1 shape.	
Quote best price F.O.B. St. Louis, Mo.	
BOURDET FLORAL CO.	
1285 Hiway 66	
St. Louis 15, Mo.	

WANTED

2000—Cornus Florida Ruba scions, 10 to 15	
2000—Ginkgo seedlings, 8 to 12 ins., or 12 to	
18 ins.	
BURTON'S HILLTOP NURSERIES	
Castown, O.	

WANTED

Up to 1000 Buffalo Grapevines. Please	
quote best price.	
TOBE'S SEEDS, LTD.	
Niagara on the Lake	
Canada	

WANTED

Rosa Wichuriana, No. 1, approximately	
2000; Rosa Max Graf, 2-yr., No. 1, approxi-	
mately 1500; Ilex Crenata Microphylla, 3 to	
3 1/2 ft., B&B, approximately 50.	
VALLEY LANDSCAPE CO., INC.	
Mount Washington, Baltimore 9, Md.	
WANTED	
Amur River and Ibolium Privet Cuttings.	
PAUL'S NURSERY,	
R. F. D. 3 Shelby, O.	

HAY

MARSH HAY FOR MULCHING	
Clean; no weeds. Truckloads or carloads.	
KOPFF HAY CO.	
Beaver Dam, Wis.	

FLATS

MINNESOTA WHITE CEDAR FLATS	
No. 1, 14x20x2 1/2.....	\$24.00
No. 2, 14x20x3.....	27.75
No. 3, 12x16x2 1/2.....	18.50
No. 4, 12x16x3.....	21.75
No. 5, 14x16x2 1/2.....	20.75
No. 6, 14x16x3.....	24.50
No. 7, 15x22 1/2x2 1/2.....	27.25
No. 8, 15x22 1/2x3.....	31.50
No. 9, 11 1/4x22 1/2x2 1/2.....	22.00
No. 10, 11 1/4x22 1/2x3.....	26.00
No. 11, 13 1/2x16 x5 1/2.....	30.00
No. 12, 5x5x11.....	16.00
No. 13, 5x5x16.....	18.50
All other sizes quoted on request.	
5 per cent discount on orders of 1000 or	
more.	

The above sizes are inside. Bottoms and
sides are 1/2 in. and ends are 3/4 in. thick.
All material surfaced on one side. All ship-
ments by truck unless otherwise ordered.
Your name and address printed up to three
lines in black, weather and waterproof ink,
on one or both ends pieces at the following
rates: \$1.00 set up charge plus 1/4 cent per
end piece for the first 1000 ends, 1/4 cent per
end thereafter.
Shipped knocked-down in bundles of 25.
F.O.B. Cook, Minn. Attach check. Order by
number.
H. C. HILL & SONS, Cook, Minn.

FLATS

Made from a good grade of Southern Yellow Pine dipped in Rot Not wood preserver for longer life.

Standard specifications, inside measurements.
 16 x12x2 1/2 \$20.38 per 100
 16 x14x2 1/2 27.06 per 100
 20 x14x2 1/2 26.61 per 100
 20 x14x3 31.07 per 100
 22 1/2 x15x2 1/2 30.49 per 100
 22 1/2 x15x3 35.35 per 100
 All other sizes quoted on request. Prices F.O.B. Birmingham, Ala. We are manufacturers, not jobbers. Our quality guaranteed. Prompt shipment on any quantity. Mixed shipments of Flats, Plant Boxes and Spray Boards. Write for our price list on these items. Attach check to order.

HIGHTOWER BOX & TANK CO.
 P. O. Box 1449
 Birmingham 1, Ala.

REDWOOD FLATS, K. D.

Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure, \$42.00 per 100.

1x1-in. Cypress stakes, pointed.

50 pcs. to bundle, 4 ft., \$3.50 per bdl.

50 pcs. to bundle, 5 ft., \$4.50 per bdl.

50 pcs. to bundle, 6 ft., \$5.50 per bdl.

Ship same day. Cash with order, please.

YOHO & HOOKER, Youngstown 2, Ohio

LABELS

TA-LABELS.—The all-aluminum labels. Embossed with ordinary pencil. Same as writing. Rustproof and everlasting. Tree and pot type at \$4.75 per 1000; \$2.75 per 500.

QUALITY PRINTING—QUICK SERVICE. Statements, letterheads, envelopes, certificates. Gummed stickers, \$1.50 per 1000. Business cards, \$4.00 per 1000. All prices are postpaid. Write today for samples and prices. SHELL NURSERY Birmingham 5, Mich.

ORCHID SUPPLIES

OSMUNDA: Fresh-cut "live" fiber

Professional bag, \$2.50; Bushel, \$5.90

Standard Bale, \$12.00

PLASTIC LABELS—Copper or nickel-bearing Wire.

Pot, 1/2 by 3 1/2 ins. \$1.50 \$4.95 \$ 9.50
 Pot, 3/4 by 4 ins. 1.95 7.95 15.00

Orchid Spec., 3/4 by 4 1/2 ins.,
 red, blue, green, yellow

and white 2.10 8.95 16.00

Wired, 3/4 by 2 ins., white, .. 1.95 7.95 15.00
 3/4 by 3 1/2 ins., white, .. 2.15 9.00 17.00

3/4 by 3 1/2 ins., blue, green,
 red and yellow 2.25 9.45 18.00

White Strap Label,
 3/4 by 6 1/2 ins. 2.10 8.95 16.00

Special—
 NEW PRICE—ORIGINAL BUBBLE VASE
 LAPEL PINS, \$1.25 doz. 2, 3, 5-in. Orchid
 tubes with rubber caps, 60c per doz., \$4.10
 per 100.

WRIGHTWOOD FLORAL CO., INC.
 2407 N. Main St. Houston 3, Tex.
 Prices F.O.B. Houston. Subject to change
 without notice.

PEAT

COLBY PIONEER PEATS

GRANULATED PEAT MOSS (ACID)

2 1/2-bu. plastic-lined bags, approx. wt. 35 lbs. Each

1 to 10 bags \$1.25

10 to 25 bags 1.15

25 or more 1.00

HI-NITROGEN HORT PEAT (NEUTRAL)

2 1/2-bu. plastic-lined bags, approx. wt. 35 lbs. Each

1 to 10 bags \$1.25

10 to 25 bags 1.15

25 or more 1.00

BLACK CULTIVATED PEAT HUMUS

(SWEET)

2 1/2-bu. plastic-lined bags, approx. wt. 75 lbs. Each

1 to 10 bags \$1.25

10 to 25 bags 1.15

25 or more 1.00

Car or truck delivered quotations on

Bulk or Packages

Gladly furnished.

F.O.B. Hanlontown, Ia.

Terms: 2 per cent cash discount.

COLBY PIONEER PEAT CO.

Hanlontown, Ia.

TRADE BOOKS

TRADE BOOKS.

THE BOOK OF TREES,

by A. C. Hottes, \$4.00.

STANDARD CYCLOPEDIA OF HORTI-

CULTURE,

by L. H. Bailey, \$40.00.

HANDBOOK OF FERTILIZERS,

by A. F. Gustafson, \$2.00.

AMERICAN NURSERYMAN

343 South Dearborn Chicago 4, Ill.

SPHAGNUM MOSS

WISCONSIN'S QUALITY SPHAGNUM

MOSS.

Clean, long-fibered, solidly packed in bur-lapped or wired bales of standard size, direct from drying beds. None better.

Trucked when feasible.

WARRENS MOSS CO., Box 7, Warrens, Wis.

Benefit from

American Nurseryman Classified Ads.

STAKES

CYPRESS PLANT STAKES

50 Pieces to Bundle.

1x1-in.—3 ft., pointed \$2.50 per bundle

1x1-in.—4 ft., pointed 3.50 per bundle

1x1-in.—5 ft., pointed 4.50 per bundle

1x1-in.—6 ft., pointed 5.50 per bundle

1x1-in.—7 ft., pointed 7.00 per bundle

These stakes are made of cypress and redwood, are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!

YOHO & HOOKER

Youngstown, Ohio

STAKES, GALVANIZED HARD STEEL,
 STAKE FASTENERS AND COTTON TWINE.

Prices and samples sent upon request.

SCHUPP SUPPLY CO., Wilmette, Ill.

The Trade's Buying Guide—

The American Nurseryman Ads.

MISCELLANEOUS

FARNHAM'S 35-MM. FLOWER PORTRAITS

The finest collection of 35-mm. single and stereo close-up flower portraits on the market. For increasing the sale of plant material show your customers the beautiful depth and solidity of 3-dimensional pictures of plant blooms. These are the standard 35-mm. stereo frames so that either one of the stereo pairs can be used in a single 35-mm. projector. They give greater detail than the smaller stereo frames.

Complete 18-page catalog, listing the names of over 1800 Tree, Shrub, Vine, Garden, Cactus and Fruit Blossoms with large selections of Azaleas, Camellias and Roses for 50c. This charge will be deducted from your first order of 19 or more slides.

A stereo viewer for viewing the above stereo slides for only \$1.50. Stereo slides, \$1.00 each; single 35-mm. slides, 50c.

Write or phone

GEORGE J. FARNHAM, 2225 Colorado Ave., Santa Monica, Calif. Phone EXbrook 4-9124

GOSLINGS

Cut labor costs. Use goslings to weed seedbeds, shrubs, evergreens, roses and other plantings. Also orchards, vineyards, berries, etc. Free booklet tells how.

Heart of Missouri Poultry Farm
 Route 4N Columbia, Mo.

Don't Be Late!

Mail advertising copy to reach

the American Nurseryman

Monday, two weeks before date of issue.

WANT ADS

(Additional Want Ads on Page 84)

SITUATION WANTED

College graduate with ornamental horticulture degree, age 26, married, veteran. Desires position with eastern or midwestern nursery. Experienced in general nursery work and private estate maintenance. Available June 15. Address Box 944, care of American Nurseryman.

SITUATION WANTED

By all-around man, 3 years at Detroit retail nursery outlet—selling, planting, in charge of store and lot in owner's absence. Taking A.L.S. course to improve drawing. Understand design. Sober, steady, like hard work. Prefer Ohio, Indiana or Pennsylvania. References, photo, other data on request. J. T. CRAIG, JR., Box 3, Leesville, S. C. Phone 3307.

FOR SALE

A flourishing 10-acre nursery, 8 acres filled with choice, medium-size, salable, growing trees, shrubs and evergreens.

SKOKIE NURSERIES

Gurnee, Ill.

On Highway 41 Between Chicago and Milwaukee

FOR SALE

Evergreen nursery 15 miles north of Pittsburgh in expanding territory. 1 1/2 acres, 4000 evergreens, shop with full basement, small greenhouse with automatic gas hot-water heat, 8 coldframes, shade house, 1 1/2-ton truck, Rototiller and all tools, 5-room 1 1/2-story frame house built in 1941, integral garage. Must sell—a reasonable offer. Write: Bill Fetterhoff, R. D. 2, Gibsonia, Pa.

FOR SALE

10-acre retail nursery in deep south, in a city of about 60,000, where we have a 7-month selling season. Over 1000 new homes built this year. This is a fine opportunity for a hustler and will bear investigation. Write: BANKER'S NURSERY, Box 784, Lake Charles, La.

FOR SALE

PERENNIAL PLANT NURSERY. Established wholesale and retail business—hardy mums a specialty. 9 1/2 acres of land, 18x60 sash greenhouse and good hot water system. Fine 8-room house, garage and packing shed. Must sell because of death of owner. For particulars, write to FLORALANE NURSERY, South Haven, Mich.

HELP WANTED

LANDSCAPE DESIGNER AND SALESMAN

Permanent position for the right person with an established northern Illinois nursery. Must be capable of developing landscape designs. Also, some knowledge of propagation would be helpful. Please state all particulars in first letter and salary expected, along with a recent photograph or snapshot.

Address all replies to Box 938, care of American Nurseryman.

HELP WANTED

CHASE BROS. CO. of Geneva, N. Y., has an opening for a man to manage a force of salesmen selling at retail. Because of permanent illness, we have lost the man who has been managing sales for the past 25 years. Good opening for man familiar with this line of work.

HELP WANTED

Section foreman for wholesale nursery in Commack; also, yard salesman for Bayside. State experience in first letter.

LEO SCHRAKAMP NURSERIES

56-38 210th St.

Bayside, L. I., N. Y.

HELP WANTED

Established nursery, operating garden center and landscape business in New Jersey, needs additional men. If you possess experience and ability, address your information to Box 943, care of American Nurseryman.

HELP WANTED—Profitable retail nursery desires full-time operator on lease, option-to-buy or salary basis. Plenty of equipment, storage, stock and customers. Experience, aggressiveness and proper credentials necessary. Give full particulars when corresponding—or better still, visit us. Let 1953 be the year of decision for you.

RUESS & SNYDER, INC.

321 Clinton St. DeKalb, O.

WANTED—Distributors and dealers for Cyan-Kil Bombs, tested and proven best way to get rid of gophers, moles, prairie dogs, ground squirrels and all rodents. Liberal commission and discount. LONG MFG. CO., 291 William St., San Leandro, Calif.

[TURN THE PAGE.]

WANT ADS

(Additional Want Ads on Page 83)

WANTED

The man we are seeking should be between the ages of 30 and 45. He should be reliable, sincere, stable, imaginative and thorough. He should have an impeccably honest background, worthy of the most careful scrutiny. He should be interested in a permanent position.

The man we are seeking will represent us in the midwestern area of the country. He will sell and serve our customers on a "salesman-protected" basis. He will handle a broad line of nursery products and will enjoy all the benefits and opportunities of association as a full-time employee, with a long-established, progressive and forward-looking organization with a national reputation.

The man we select will, by real application, earn a fine income.

Readers of this advertisement who feel they may qualify should prepare a very complete data sheet on themselves which includes all of the following:

1. Complete job background—dates, duties, income.
2. Complete educational background—dates, degrees, specialties.
3. References—3 personal, 3 job.
4. Income requirements.

All inquiries will be considered strictly confidential and they should be addressed to C. E. Hogan, Vice-president and General Manager, C. R. Burr & Co., Inc., Manchester, Conn.

C. R. BURR & CO., INC.

HELP WANTED

RETAIL NURSERY MANAGER

Large nursery, established over 30 years, looking for experienced retail nurseryman to manage retail department including garden supply sales mart and landscaping. Excellent opportunity for an aggressive, experienced man. Please send full qualifications, including experience, age and present job, to:

CLINTON NURSERIES
Clinton, Conn.

HELP WANTED

FOR OUR LANDSCAPE DEPT.

We are looking for a young man who wants to get ahead in an established business with an enviable reputation. Our proposition will appeal to those with drive and willingness to take on responsibility.

Initially, this man will work with our landscape architect; after proving his ability, he will be on his own. First requirement: Integrity and a liking for modern landscape design.

THE COTTAGE GARDENS
Lansing 15, Mich.

HELP WANTED

Experienced propagator for nursery stock.

DE KALB NURSERIES, INC.
Box 67, Norristown, Pa.
Phone: NO. 5-1597

HELP WANTED

Tree experts on cavity and general tree work. Top pay. Can also use landscapers and nurserymen. Top pay.

LAUREL NURSERY
311 Jericho Turnpike
Floral Park, L. I., N. Y.
Phone: Floral Park 4-9708

HELP WANTED

LANDSCAPE FOREMAN

We want an experienced man with thorough knowledge of plant materials, transplanting methods, etc. Must be capable of supervision of crews and able to read and carry out plans.

We are a leading and rapidly growing midwest nursery and landscape organization. Write your qualifications fully and indicate a time convenient for interview. Top salary and incentive plan.

THE SECOR LANDSCAPE CO.
3340 Secor Road
Toledo 6, O.

HELP WANTED

EXPERIENCED PROPAGATOR

Excellent position in wholesale propagating nursery for an alert and progressive man, well-experienced in ornamentals. Good salary, house, pleasant conditions, rural setting (New York City and Philadelphia close by) and other benefits. Established in 1921 and still growing. Please write:

JOHN VERMEULEN & SON, INC.
Neshanic Station, N. J.

HELP WANTED

PROPAGATOR

Experienced in the propagation of evergreens and ornamental stock in greenhouse and outdoors.

BUNTINGS' NURSERIES, INC.
Selbyville, Del.
Phone 2321

HELP WANTED

Landscape salesman to become associated with a well-organized and modern-equipped nursery-landscape concern established over 25 years in suburban Philadelphia. If this man has knowledge and initiative, he will supervise his own department on a most advantageous money-making basis. Reply to Box 928, care of American Nurseryman.

HELP WANTED

Nursery-landscape foreman. Baltimore territory. Opportunity later as partner in well-established nursery. Full reply and salary expected. Address Box 927, care of American Nurseryman.

HELP WANTED

Middle-aged landscape gardener for small nursery in Pennsylvania. Good working conditions. House available. Write, stating salary and experience. Open April 1. Address Box 933, care of American Nurseryman.

HELP WANTED

Executive Sales Manager

Must be experienced in landscape selling and designing, and salesground direct selling. An opportunity for the right man, who has energy, stability and integrity, to become co-sales manager or sales manager in a large, exclusive metropolitan area of midwestern city. Send replies to Box 939, care of American Nurseryman.

HELP WANTED

Experienced young man, high school or college graduate preferred, for work in cash-and-carry sales department of our nursery. Wonderful opportunity for right type person to work into responsible position. Write or call for interview after March 1. Hillsdale Landscape Co. R. R. 13, Box 185, Indianapolis, Ind. BR. 5495.

HELP WANTED

Propagator

Experienced in broad-leaved evergreens and midsouth material. State full particulars in first letter.

WINN NURSERY, INC.
1531 Blandford Circle
Norfolk, Va.

NURSERYMEN'S SCHOOL

[Continued from page 12]

mentals Research Laboratory, which is located on the institute's grounds, was next introduced. He briefly described the program which would be conducted during the next year on turf disease investigations.

The laboratory is not going to work on control measures the first year, but rather is going to diagnose turf troubles in individual cases. The laboratory's findings will be used in preparing a turf bulletin in the fall of 1953. If enough interest results, turf plots may be set up.

Foliar Feeding Recommendations

Immediately after lunch Mr. McFaul started the meeting on its way by introducing an old friend of many of those present, Dr. A. M. S. Pridham, also of Cornell University. Dr. Pridham first discussed foliage application of fertilizers.

"To be effective," said Dr. Pridham, "foliar sprays of nitrogen carriers, such as urea, calcium nitrate and ammonium sulphate, should be applied before leaves reach full size. Absorption decreases as the leaves age."

The use of spreaders or wetting agents is advisable, and effective results follow when sprays are made during cool, cloudy weather.

Dr. Pridham pointed out that in order to correct chlorosis, or iron deficiency, ferrous sulphate sprays or chlorated iron sprays can be applied and will give temporary greening, but for a permanent cure, soil treatments with either of the above compounds are needed.

Urea should be used at rates of one pound to five pounds per 100 gallons of spray; iron (ferrous) sulphate, at the rate of four ounces to five gallons of spray.

Rates of application for soil treatment will depend on soil type, internal drainage, and the plant species.

From foliage applications of fertilizer, the talk turned to nursery weed control, and Dr. Pridham described the use of the following materials and proportions which have proved satisfactory. Materials were applied to the weeds directly in the nursery rows in order to eliminate hand weeding, since the weeds between the plant rows could be taken care of by a machine. The sprays used were Dow Premerge (one gallon to 25 or 50 gallons), Dow Selective (one gallon to 50 or 100 gallons), Sinox PE (one gallon to 25 or 50 gallons), Sinox W (one gallon to 50 or 100 gallons), Chloro I.P.C. (one gallon to 25 or 50 gallons). None of the sprays

PREMIER PEAT MOSS

The All-Organic Soil Conditioner

does

MORE
for
all soils!

MORE
in gardening-
mulching, etc.

All nurserymen
need **PREMIER**
—because
all soils need it!

MORE
for customers
—and for you!

BIG-VALUE
BALESBAGS AND
CARTONS
(filled
or
unfilled)

PREMIER — the organic, soil conditioner — gives you more results — because its superior absorbency does more to produce good structure, germination and growth in all soils!

And Premier does more than soil conditioning! It provides organic material at the same time. Premier Peat Moss can be used all year — for mulching, seedbeds, liner beds and transplanting. And it can be sold all year — because it's the proven, popular organic material that every home gardener needs!

In packages for every need — from 1-pot bags to big bales. Write today for prices on Canadian and European Premier Peat Moss.

Premier Peat Moss Corp., 535 Fifth Avenue, New York 17, N. Y.

GARDEN CLUB SHRUBBERY
PROTECTOR

SHRUB-GARD

An invention that protects your shrubbery from the menace of destructive corrosive action caused by dogs. Makes the dog's visit so uncomfortable that he keeps away, yet it is so constructed that it will not harm the dog. The SHRUB-GARD is a unit of steel spring wires that are flexible and will not tear clothing of passers-by. Each SHRUB-GARD has three prongs and covers approximately two and one half lineal feet.

Harmless to dogs or humans.
Packed one dozen to a carton, weight 2 lbs.
Retail price \$3.75 per dozen.

THOMAS J. MAGEE

631 E. WADSWORTH AVE.

PHILADELPHIA 19, PA.

SALEM FERTILIZER
SPREADERS20-inch Model
Illustrated

- Our biggest selling model
- Steel construction
- Re-inforced hopper
- Spreading width—22 ins.
- Capacity of hopper—40 lbs.

RETAIL PRICE, \$11.50
DEALER PRICE, \$8.05

The SALEM TOOL COMPANY

Makers of Famous Reel-Reel
Salem, Ohio

JUST ONE APPLICATION OF**ALFCO made the difference!**

Photograph courtesy of
Mr. R. L. Wheeler, Founder
Central Georgia Nurseries
Macon, Georgia



On August 15, 1951 Central Georgia Nurseries began a test with 6,000 Camellia seedlings. 28 flats (3,000 plants) received one application of ALFCO. An equal number were fertilized in the usual way . . . but not with ALFCO. This photo, made when they reached transplanting age, shows a typical flat from each group. See the marked difference in growth of the plants at right which received just one application of ALFCO!

ALFCO
Alfeo LIQUID FERTILIZER
(10-12-10) Mineralized

ALFCO**Alfeo LIQUID FERTILIZER CO.**

P. O. Box 1662 • Charlotte, North Carolina

PASHEA'S

WONDER DUST
for ALL PLANT Protection
NOW CONTAINS.....

**Cash In!**

NEW
ARAMITE 15W

TESTED 100% CONTROL**FOR RED SPIDER**

Protects against Black Spot • Midge Thrip
• Mildew • Aphids

A formula used on 5000 roses, 300 evergreens, other display plants in our famous Glendale Garden with "best results we've ever seen."

These are customer-appeal features that last year built a tremendous dealer business—with Aramite 15W added, will this year top all previous records—

NOW STOCK ONLY

ONE DUST
for all Fungus and Insect control.

Effective on evergreens, roses, shrubs, all outdoor plants and flowers.

Liberal Dealer Discount!

GLENDALE ROSE GARDEN

ROUTE 4, BOX 491 Dept. A-3 INDEPENDENCE, MISSOURI

Write Today for
FREE
Information!

BURLAP

We are now featuring NURSERY BURLAP made from GUD-AS-NU, once-used burlap . . . bright, free from printing or excessive seams.

Try a bale! If not satisfied, return to us at our expense.

ROLLED BURLAP AND ONION BAGS (OPENED).

Samples and prices on request.

ACME BURLAP BAG CO.

Box 1051

Hartford, Conn.

NURSERY TAGS

Suitable for Labeling

Trees—Shrubs—Plants—
etc.

Convenient—Economical**PREMIER SOUTHERN TICKET CO., Inc.**

1623-31 Dana Ave.

CINCINNATI 7, OHIO

should be applied while the plants are in active growth.

Dr. Pridham had many colorful slides. One that caused considerable interest showed tar paper used as a nursery mulch in Hawaii. The young plants were planted through holes in the paper.

New Grasses Recommended

Dr. John Cornman, with his dry sense of humor, introduced his topic, "Seed and Fertilizer Recommendations for Long Island Lawns."

The cause of poor turfs during the past year, he told the group, was partly the rush of heat after a wet spring, followed by a dry fall. Ordinary lawns of fescue and bluegrass showed no particular disease difficulty in previous years, but this past year brought numerous difficulties with such grasses. Weeds appeared that have rarely been seen in Long Island lawns and similar lawn areas.

Poor management of lawns has caused the destruction of such dependable grasses as bluegrass and fescue. As a result, annual bluegrass has become somewhat established, and when the dry summer weather begins, it causes lawns to have a brown appearance. In northern areas (Canada) this annual bluegrass persists.

On unwatered Long Island lawns, where fertilizing has been done, fescue has become the major grass of the lawn. Close cutting even in these areas has been the ruination of many lawns, however, and heavy watering of fescue lawns has certainly not aided their appearance.

The two best fescues are Illahae and Trinity. Merion bluegrass is the best improvement in grasses over the past few years, and is probably about 25 per cent better than most other bluegrasses. It is still not utopian and its price runs high, but in cases where only fair success has been achieved with ordinary Kentucky bluegrass, Merion can probably do much better.

U-3 Bermuda grass is a possibility as a summer grass. It is like Zoysia in that it is brown after the first severe fall frost and does not become green again until late spring. It is less hardy than Zoysia matrella and must be sown vegetatively, which means that anyone using it must be faithful to its care.

The many laughs during Dr. Cornman's talk proved that a good sense of humor is always welcome.

A panel of the day's speakers completed not only an instructive program, but also an enjoyable one. In fact, the sun came out before the day was over, ending the nurserymen's school on a cheerful note.



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IMPORTANCE OF JUVENILITY

[Continued from page 14]

in reality juvenile forms of the species. *Chamaecyparis lawsoniana* ellwoodi, for instance, is one of the many juvenile forms of *C. lawsoniana*, while *C. lawsoniana fletcheri* is an intermediate form. We therefore have three distinct types of *C. lawsoniana*. The juvenile *C. l. ellwoodi* roots rapidly and with ease while the *C. l. fletcheri* is more difficult and the adult *C. lawsoniana* more difficult still. This gradient can be observed in many plants and obviously has a direct bearing upon ease of reproduction from cuttings.

Tied in with this question of juvenility is another aspect of propagation, and that is the production of propagation wood by plants grown under glass. This is an old dodge of the skilled propagator, because it has been found that cuttings taken from plants grown in this way often root with ease, while cuttings which were apparently exactly similar, taken from plants grown in the open, failed to root at all. At the last plant propagators' meeting a brisk discussion arose over the propagation of Japanese maples from stem cuttings.

In 1946, I had an opportunity of visiting the trial grounds of Boskoop,

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Size 4	Top . . . 8 1/2 ins. Bottom . . . 7 1/2 ins. High . . . 9 ins. PAN
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Holland, where many problems of propagation are being continually investigated, and I saw there tests being carried on in the rooting of *Acer palmatum* varieties. It was late June and the cuttings had just been taken as soft tips from actively growing wood. They were inserted around the edge of a 3-inch pot in a mixture of 50 per cent peat and sand. Hormones of various types were used and the cuttings were wounded. The pots were then plunged in peat in the bench and covered with double glass. Good stands were reported from these tests later in the year.

Carl Kern's Method

Carl Kern, of the Wyoming Nurseries, Cincinnati, O., brought up the question of bringing stock plants while still dormant into gentle heat in the greenhouse and forcing them into growth to produce cutting wood. He reported excellent stands of the green *A. palmatum* from cuttings produced in this way. There is no doubt at all that the production of cutting wood under glass considerably affects and generally increases the rooting ability of many plants. Just why this should be I do not know, and I do not believe that the physiologists have ever satisfactorily explained the matter. But this need not concern us. It is sufficient that we know that it works. We are planning tests on *A. palmatum atropurpureum novum* this spring and have stock plants now growing under glass for this purpose. I will report the results later.

However, quite apart from this, it would seem possible to root commercial quantities of maple cuttings if the following points are carefully

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watched: First, there must be correct timing so that the cuttings are taken from the stock plants early in the summer as soft tips in active growth. From the middle of June onward would seem to be about right for this area—south Jersey—with perhaps a range into the beginning of July if the season is late. Second, a condition of high humidity must be maintained around the cuttings so that they do not drop or flag after being taken. Third, moderate strength hormones, probably No. 3, should be used, and, finally, a light wound inflicted to stimulate root production. If these various factors can be lined up correctly, the maples should respond by rooting with reasonable ease. Timing would seem to be the most important single factor, because cuttings which are reaching the end of their spring surge of growth will rapidly harden into temporary dormancy after being removed from the parent plant. Once this happens rooting seems unlikely.

TROUBLE WITH TAXUS CUTTINGS

I have had two or three letters from growers this past week reporting difficulties with batches of taxus cuttings and asking if I can suggest a remedy. As far as can be seen the cuttings have been taken in a completely normal manner, inserted at the right time in good clean sand, with moderate bottom heat and with reasonable hormone treatments. Yet on examining the cuttings after a few weeks these growers report that all the portions of the stems below the surface of the bench have rotted. In many cases the tops of the cuttings give no indication of this trouble beneath, but when the cuttings have been pulled out to examine them all were found to be rotted.

Now, of course, it is impossible for me to be dogmatic about this because I have not seen the cuttings nor, which is more important, have I seen the stock plants from which the cuttings were taken. Yet I believe that when troubles of this kind arise they can usually be traced to an improper ripening of the late growths on the large plants from which the cuttings have been taken. There are, of course, many other factors which could cause the trouble, such as unclean sand and benches, too much bottom heat, too strong hormone powder—one grower reported using Rootone No. 10, which I believe would be too strong for most taxus—or perhaps unskilled handling of the water. How-

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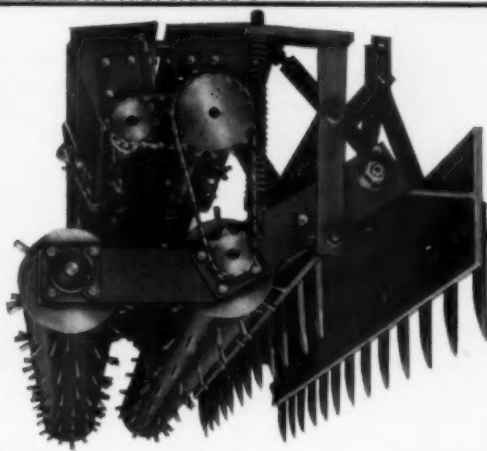
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ever, from our experience I do not believe that these factors are usually responsible for the failure of a taxus cutting crop. We have all seen excellent stands of cuttings rooted in a coldframe in what almost amounts to sandy topsoil, so why should a little contamination of the sand in the greenhouse produce such losses. I am forced to believe that the answer lies in the condition of the wood when it was removed from the plants in the fields. In general, I do not like soft, sappy growth for taxus cuttings. It is fairly common to see growers taking cuttings from dormant, semi-ripened wood produced in late summer and fall of the previous growing season. If things are just right they will root, but my experience has been that these cuttings are slower to root and are much more liable to attack from fungus diseases than cuttings taken from older wood. Taxus plants are heavy feeders and it is normal practice to fertilize them well to produce vigorous growth and a good color. Chicken manure is excellent for this purpose and seems to do more good than all the artificial fertilizers, but cuttings taken from plants which have been stimulated into strong growth in this way are unstable and uncertain. They may root, but they are equally likely to die.

Hardening-up Process

One has to consider the hardening up process which takes place as fall weather cools down. On plants which are in active growth a sudden sharp frost will certainly stop growth, but it can also cause unseen and unsuspected damage to the tissues of the soft plant stems. This may only be the destruction of a cell or two here and there, which under normal conditions of growth would be healed over by the plant and pass unseen. But remove the branch, make an open wound which provides ready access for fungus diseases and this insignificant damage becomes of major importance. The dead tissues are attacked and die, taking the live ones with them. The cutting is useless.

Although I have not had an opportunity to examine any of the cuttings which have been reported to me as dying, I believe that the type of cutting and its condition when taken is largely responsible. As I have said before, we prefer to take our taxus cuttings from plants which have been somewhat starved. The immediate past season's growth may not be more than a few inches, and we cut below this into older wood. If we have to take cuttings from



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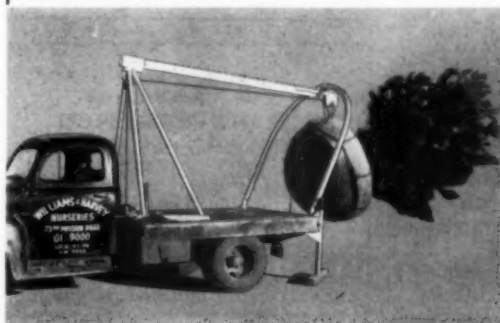
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more actively growing plants we try to cut back below the point at which the early spring growth started.

There are two major sets of growth on a taxus plant and if you cannot cut back into 2 or 3-year-old wood, then at least try to cut into the top of the growth which was produced early the previous year. This is considerably more mature, and with a butt end of this older wood on the base of the cutting losses such as these growers have described will, I feel sure, be greatly lessened if not eliminated. Given a good system of humidification it does not seem to matter if a fair proportion of the softer top growth is retained on the cutting. I have seen some batches inserted with cuttings 12 and 15 inches high rooting strongly. In fact, the larger the cutting the stronger the rooting within certain reasonable and obvious limits. The important thing seems to be to have the base of the cutting run down into older, more mature and consequently more ripened wood. Short side branches, which nearly always arise at this point, can be ruthlessly pulled away by hand and the resulting scars seem only to stimulate even stronger rooting.

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NEW JERSEY MEETING

[Continued from page 10]

fied with his business the way it is, because "You must either forge ahead or drop behind, you cannot stand still."

The group adjourned to the meeting room after Mr. Brockett had concluded the luncheon program and heard a fine talk by Dr. Clyde C. Hamilton, associate research specialist in entomology at the New Jersey agricultural experiment station at Rutgers University, New Brunswick. Dr. Hamilton brought the members up to date on his work with taxus weevil and spider mites. Dr. Hamilton's address will be printed in a future issue of the American Nurseryman.

Chemical Weed Control

The next speaker was Dr. A. M. S. Pridham, associate professor of ornamental horticulture, Cornell University, Ithaca, N. Y., whose subject was "Chemical Weed Control."

Dr. Pridham was careful to mention that work being done to control weeds in nurseries is still in the infant stage, but that the problems to be solved make it worth while for further research, experimentation and observation.

The speaker pointed out that chemical control of weeds is receiving increased attention in all phases of agriculture. Most of the basic research is being conducted with purely agricultural crops but Dr. Pridham is definitely obtaining results with some original experiments.

He mentioned that chemical weed control has not been used on a large scale in nurseries for several good reasons, but not because weeds in a nursery are unique or different from those found in other forms of agriculture. The first reason is that treatment of seedling weeds less than a half inch in size is seldom undertaken in nurseries except in midsummer. The array of chemicals is thus re-

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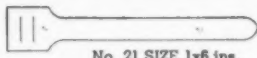
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duced to those that are also capable of killing weeds of a half inch and more in size when heavier dosage or more lethal materials are needed than for seedling weeds. Secondly, injury to nursery stock is an important factor, as it is with farm crops.

A third problem, related to crop injuries, is the need to determine the response of not a single kind or a few varieties but to find herbicides which will kill many weed types and not injure any of the large number of kinds and varieties of plants found in nurseries. This may not be possible and the nurserymen will have to come to the same limited objective found with other crops, that is, special formulations for specific weeds in specific crops.

With the aid of colored slides Dr. Pridham then went into detail as to the materials that he has used in his experiments and showed tabulations of results on the screen. A few types of chemical weed killers have proved superior to others in his tests thus far.

Dr. Pridham pointed out the importance of timing the sprays with relation to the stage of maturity, the dormancy and general condition of the plants in the nursery row. It is also important, according to Dr. Pridham, that flat spray or similar directional-type spray nozzles be used in order to direct the herbicide into the base of the plants so that less than six inches of the stem comes in contact with the spray. This is done by directing a flat spray almost parallel to the soil surface. He pointed out that the plant row is sprayed from both sides and only the area normally weeded by hand receives the herbicide treatment. The space between the rows is still left for normal machine cultivation.

The manner of protecting plants from injury by mechanized equipment was also mentioned by Dr. Pridham.

It is generally conceded, he said, that the time required to weed a given area by hand can be reduced at least 75 per cent by efficient spraying from knapsack sprayers. This, of course, only pertains to those situations where a chemical known to be safe and successful is used.

It is suggested that any person contemplating chemical weed control first contact the agricultural experiment station in his area for advice from someone familiar with the effects of these herbicides.

Landscape Architect's Place

Next on the program was a panel discussion built around the topic, "The Place of the Landscape Archi-

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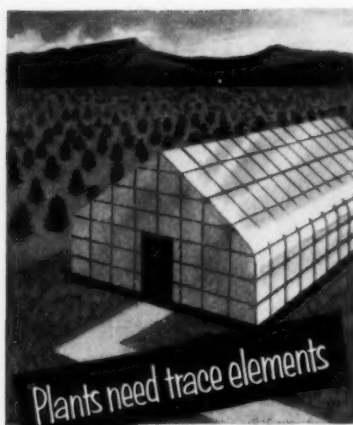
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tect in the Nursery Picture." The moderator was Bert Flemer, of F. & F. Nurseries, Springfield, N. J. The remainder of the panel, affording a good cross section for the discussion, consisted of A. L. Urban, a landscape architect at Trenton, N. J.; Stanley MacIntosh, a landscape designer at Turner Bros. Nursery, West Long Branch, N. J., and William Flemer, Jr., of Princeton Nurseries, Princeton, N. J. The panel represented the professional landscape architect, the landscape nursery and the wholesale grower.

The topic of the discussion is a highly controversial one in almost any section of the nation, but especially so in the metropolitan areas in New Jersey and around New York city. This is so because these areas contain a large number of persons in all these professions. Anywhere you find three or more nurserymen collected around one table, it is a simple matter to start a hot discussion on the subject. It is almost as good a subject as is baseball during the wintertime.

The panel was handled in an excellent manner and questions from the floor finished it up in grand style. Briefly, the most pointed remarks of the three members of the panel are presented as follows:

A. L. Urban said that it must be recognized that the landscape architect is completely dependent upon growers and contractors and it is to everyone's benefit to maintain a friendly relationship between the grower, the contractor and the landscape architect. The landscape architect should always be able to work with a completely free mind in the matter of the garden design and the plants he wants to use.

Mr. Urban said that the "sales service" is a completely legitimate form of advice that the homeowner is rightfully due.

Mr. Urban also stated that when a nurseryman enters into the designing field, he should at once begin practicing that art and cease being a plant salesman. In designing landscape plans, architects must always remain intellectually honest, he continued, and when a nurseryman hires professional help in the design department, he should employ only the best type of designer and should charge for the plans amounts commensurate with the quality of the work.

Three Kinds of Nurseryman

Mr. MacIntosh, the landscape designer, pictured nurserymen as falling into three categories: (1) "Carload lots"; (2) "roadside vendors,"

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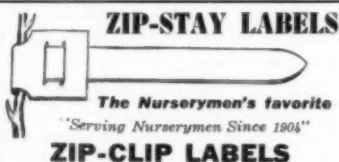
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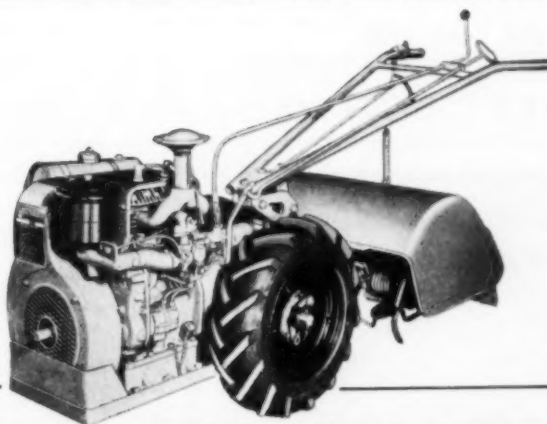
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M-53

and (3) the landscape nurseryman who is primarily the practicing architect. Mr. MacIntosh said he would speak only of the third type. He emphasized his opinion that the landscape nurseryman definitely fills the need for the homeowner who cannot afford but a small percentage of his salary for landscape service. He said that the good influence of a well-qualified nurseryman can be seen in the neighborhood in which he does his work. The landscape nurseryman, he continued, also serves his community well.

Mr. MacIntosh pointed out that it is the landscape nursery that is absorbing the majority of students who graduate from college-level programs in landscape gardening. That this system is working well can be demonstrated by the fact that many nurserymen presently have sons in school taking landscape courses in the hope that they can return to the business as a landscape designer, he said. The fact remains, though, he continued, that once the nurseryman develops the customer's confidence in his work, sales will follow naturally. He mentioned that a promising development in New Jersey is the existence of the "Better Planting" committee of the New Jersey association which is active and working to im-



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prove the quality of landscape work throughout the state. He emphasized that perfection is not to be expected but instead of gradual improvement in the over-all design of the home properties.

When questioned about how his firm charges for plans, Mr. MacIntosh said it depends mainly upon the size of the order and the relationship built up between the customer and the company.

He added that, contrary to the prevailing opinion, the landscape designer who works for a landscape nursery has a completely free hand in the selection of plants to put in his landscape design. This is true of his case at least, he said.

Mr. MacIntosh concluded his remarks by saying that many times the small landscape job can be settled right in the office if the homeowner will bring in snapshots of his property and the house and perhaps some rough plans with fundamental measurements on them. This is one way of servicing a large group of customers who cannot afford more expensive plans.

Plant Grower's Viewpoint

Mr. Flemer, who represented the wholesale grower of plants, said that perhaps his most important dealing with the landscape architect is to find out far enough in advance what plants and how many of them will be required by the landscape architects doing business with him so that he can grow them to meet those quotas. Mr. Flemer then gave a good-natured imitation of the usual complaints that can be heard about the professional landscape architect. He said that he definitely believes that the landscape architect fulfills a great need and does in almost all instances superior work with landscape designs. He said that he agreed with Mr. Urban when he stated that the landscape architect should always be able to work with a free mind.

Mr. Flemer called for closer cooperation between the nurseryman and the landscape architect. He urged the landscape architect to inform his colleagues that they could benefit greatly by paying personal visits to the nurseries with which they do business in order to check their available stock and see what young material they have growing. This could turn into a 2-way street whereby the architect could find out what materials the nursery does not have and, as a result of the friendly discussions, the nursery might start growing more desirable material.

He closed his remarks by asserting

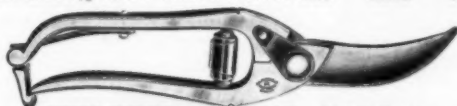
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Long, narrow blades for delicate trimming and pruning.

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TWO-BLADED KNIVES

No. 727. (Imported Henckel.)	Each	\$3.00	6 for	\$16.50
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No. 716. (Schrade, American-made.)	Each	\$2.75	6 for	\$15.00	Dozen	\$24.00
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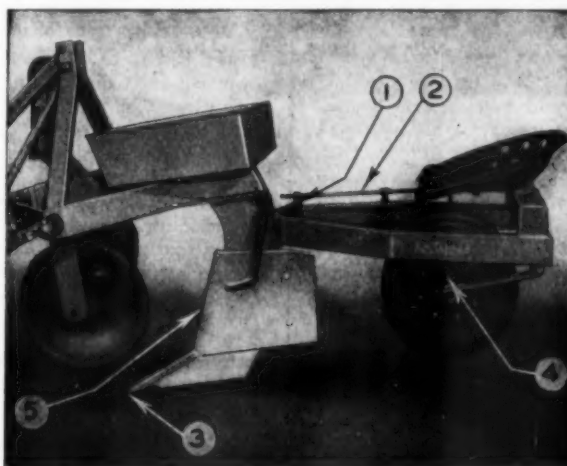
that the landscape architect is, and should be, to the nursery industry what the building architect is to the building trade. Someone must design the object before the contractors can build it.

The second day of the winter meeting will be reported in a later issue of the American Nurseryman.

HORTICULTURAL AWARDS

The Massachusetts Horticultural Society recently announced its selections for awards for 1952. Among those named were Dr. Albert Francis Blakeslee, a geneticist, who won the George Robert White medal of honor, and Arie F. denBoer, superintendent of Water Works park, Des Moines, Ia., who has developed many hybrid crab apples, winner of the Jackson Dawson medal.

The Thomas Roland award went to Dr. Victor A. Tiedjens, Mario, O., for his work in hydroponics. Fred Edmunds, Portland, Ore., nationally known new rose judge, won a large gold medal, and another of these awards went to Mrs. Bessie Raymond Buxton, Peabody, Mass., lecturer, authoress and amateur botanist, who recently completed an index of more than 10,000 cultivated begonias.



THE FIVE FEATURES THAT MAKE THE *Rootscred* UNIQUE:

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Zero-pressure pneumatic tires cannot go flat. Plants on hillsides on the contour, around stumps; excellent for large-size stock, nursery work. Scalpers available. Guaranteed to do your job or money back. For further information write:

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Ideal for the "home gardener" . . . Ovotox is a concentrated wettable powder ready for instant use. *Outstanding efficiency!* It will pay you to try Ovotox—get a trial package from your dealer or write Bonide. 1-lb. can makes 24 gal. of spray. To keep dogs and rabbits off—use Dogzix!



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Tree-Tox prevents Black Spot and worms. Made for the "backyard" gardener—no mussy mixing! Can be used as a dust or spray . . . micronized for outstanding efficiency . . . easy to use. Economical—1-lb. can makes 27 gallons of spray. For Scale and Scab use Dormatox, a dormant spray oil.

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NEW ENGLAND MEETING

[Continued from page 8]

"and then we break down the plan into months and into weeks. We also have to plan for the big holidays when they come around. Each of these periods has to be considered in our operating plan. This means that we have to have a big plan to provide for a proportionate amount of merchandise to be sold during the different periods. Then we have to further analyze our business and break the merchandising plan down into categories.

"Once we break it down into categories we can plan on selling so much in one type of plant and so much in another. We can figure on so much in fertilizer and soil conditioners. We can figure that we will sell so much in hardware and tools, so much in pot plants and bedding stocks, and so on."

Mr. Raben declared that the merchandise handled by his store is divided into 13 classes. Sales of each class of merchandise are recorded individually so the firm knows what percentage of the total sales has been contributed by each class of merchandise. Costs of the various classes of merchandise are also recorded and the firm is able to determine whether it has sold enough of a certain type of merchandise at a certain markup to justify the purchase of a certain volume of that type of merchandise.

Mr. Raben then turned his attention to advertising, pointing out the advantages in both advertising for sales and institutional advertising. Here again, planning was mentioned as being all-important. Consistency in advertising was mentioned as being absolutely necessary. Mr. Raben urged that the nurserymen study the methods used by department stores in day-to-day retail advertising.

Encourages Competition

The speaker dismissed the idea, held by some retailers, that the proximity of a number of stores selling similar merchandise is a cause for distress. "For my part," he said, "I would encourage a competitor to open across the street from me. I have said this same thing to people time and time again. I would like to see not just one competitor across the street, I would like to see several of them. If I could control the land within a mile radius and do what I wanted to do with it by leasing or selling, I would encourage fellows who intend to open garden centers or markets to open their businesses as close as possible to mine."

To illustrate his thinking, he mentioned the average shopping center,

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SEND NO MONEY—pay postman only 24¢ plus postage, then 4 monthly payments of \$6.75 each.
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The finest soil cable ever made. Will take more abuse and outlast any soil cable ever made. Over 2½ times as much metal in the heating wire. New Geom insulation approved for continuous operation at 221° F. Heats any other cable by 45°. No sheath shock.
8808—400 watt—115 V. for 2 sash. . . . \$ 6.00
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Large discounts for commercial users. Write today for free instructions, plans, data.

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PROFITABLE TREE WOUND HEALER

C-4 BLACK TREE WOUND PAINT effectively seals and stimulates natural bark growth over wounds caused by grafting, pruning or torn bark. Your discount—40% off retail prices of \$1.25 qt., \$2.75 gal. Packed 12 qts. or 4 gals. Order a case today!

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where there are usually several of the same type of store in a small area. The reason they congregate, he said, is to attract the flow of traffic into the area, which flow usually benefits all of the stores. Once the potential customers have been attracted, he said, it is up to the individual merchant to be a little bit smarter than his competition. It is in the face of competition, he added, that the retailer exercises his merchandising ingenuity to the fullest.

Mr. Raben also called for improvements in the packaging of nursery stock as an aid to retailers. He reviewed the progress in packaging made by other industries, and lamented the fact that many plants are still being offered for sale in "a big dirty bag of burlap."

"Why cannot it be planted in or grown in something that is square, and then have it wrapped in something that is fancy and just a little bit glamorous?" he asked. "The material used could have the same quality as burlap, but I think that the appearance could be improved upon. We should have something that will catch the eye of the customer."

Building Up Slow Months

In response to a question from the floor, Mr. Raben explained his methods of increasing the volume of sales during the slow months of the year. Using the month of January as an example, the speaker stated that through planning he was able to increase his January sales by 800 per cent from 1952 to 1953 (1952 was the first year his store was open at all in January). He accomplishes this by advertising for mail-order business during the period when over-the-counter sales are slow.

Following another comment from the floor, Mr. Raben acknowledged that there is a problem in connection with the replacement of defective merchandise when it is sold on a self-service basis. He stated that his firm maintains a liberal guarantee policy, replacing defective plants within a year of their original purchase. When it was suggested that this type of guarantee might be too liberal, Mr. Raben replied that it is set up that way to meet the challenge of the competition. The customer is likely to trade where he can obtain the most liberal guarantee, the speaker concluded.

The next speaker was Dr. Frank L. Howard, director of the department of plant pathology and entomology at the University of Rhode Island. Dr. Howard's lecture, en-



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Our new 12-inch rotary cutter attachment is unsurpassed for mulching weeds in nursery rows — mulches any size, will even cut off cornstalks close to ground. This attachment costs only \$24 additional — attaches to ROTO-HOE in a few minutes.



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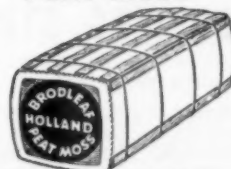
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titled, "The Nurseryman's Private War," covered such subjects as fungicides for bent grass greens, brown patch epidemiology and control, fungicides for lawns, bluegrass leaf spot studies and other topics pertaining to the control of insects and diseases in the field of grasses. The address concluded the Wednesday morning session.

Panel Discussion

Following a midday dinner, sessions resumed with a panel discussion moderated by Chester E. Hogan. Members of the panel were Louis Vanderbrook, Manchester, Conn.; Seth L. Kelsey, East Boxford, Mass.; Willard M. Bond, North Abington, Mass., and Arthur Webster, Cromwell, Conn.

Mr. Hogan directed his first question to Mr. Vanderbrook, the question being, "In what basic ways can the wholesaler assist the retailer in such things as stock selection, merchandising and other services?"

In reply, Mr. Vanderbrook stated that the wholesaler should have information as to what stock moves well in all sections of the country with which he deals. He should refrain from allowing his retail customers to buy anything that might not move or that might create hard feelings among the buying public. He also should make sure that the stock he sells is up to a reasonable standard and that it is hardy in the area in which it will eventually be planted. In dealing with landscape contractors, Mr. Vanderbrook said that the main problem is making sure that the product the wholesaler is sending is of good quality.

Mr. Hogan then asked Mr. Vanderbrook if the wholesalers are doing a good job of helping the retailers.

Mr. Vanderbrook replied that some wholesalers are doing a good job. However, he said, there are others who are too dollar hungry and push off plant material that is not good. This, he continued, may be because of the fact that employees who are handling the material are careless and do not handle it in the proper manner. He also mentioned that some wholesalers are sending out plant material without labels.

The moderator then posed the same question to Mr. Bond, who replied that he did not believe enough wholesalers were putting enough thought into the growing of the material that must be sold in a retail store. Plants must be able to attract customers. The materials should look promising enough so that the retail salesmen can present a good sales case to the customer. He

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WOOD LABELS

For Nurserymen

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said the wholesaler should always aim at growing material that the public will buy, not simply material that the retailer will buy, since the latter has little choice but to buy it; also, if the retailer cannot sell the material, he will eventually be no longer able to buy it.

Commenting on the same question, Seth Kelsey mentioned the matter of plant material wrapping. He said that many times the retailer does not turn over a plant until two or three weeks after receiving it from the wholesaler and that the plant should be wrapped and roped tightly to stand up during this period of time. "It is pretty discouraging," he said, "to sell something that looks like it had a bag of loose marbles at the base."

How Retailer Can Assist Wholesaler

Reversing the question, Mr. Horgan asked Mr. Webster how the retailer can assist the wholesaler in the latter's problems, such as delivery, introduction of new products and disposition of surplus material. Mr. Webster replied that the retailer should inform the wholesaler or producer of trends which indicate consumer interest in various types of plants and tell the wholesalers which types of plants are moving, and which are not, so as to influence the production of certain types of material. The retailer should also tell the wholesaler what he thinks of the latter's methods and make suggestions as to improvement which will be beneficial to both the wholesaler and the retailer.

In the matter of disposition of surplus, Mr. Bond rejoined the discussion to say that he, as a retailer, would rather see surpluses burned rather than have them placed back on the market. He said he did not like to see surplus material sold to the "lucky retailer" who may have a cash balance that will give him the wherewithal to pick up the material and have the advantage over the others. He said that he agreed with Mr. Raben that being able to dispose of such stock is good business, but he added that not all retailers are in a position to acquire the surplus and turn it over.

At this point, Lester Needham entered the discussion to say that the retailer—the fellow who contacts the ultimate consumer—can more readily find out what plants are needed for any particular type of house and what the customer wants. He mentioned a symposium at the recent eastern regional meeting, at New York, where it was developed that medium-size trees, such as dog-

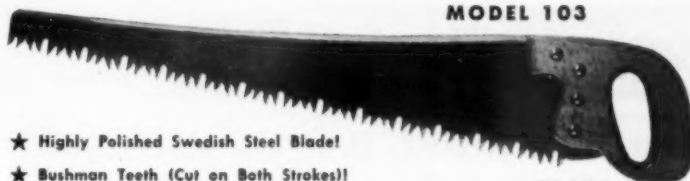


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Retail Price	Dealer & Grower Cost
1-oz. pkt. 10c—72 to cs. wt. 7 lbs. . . . \$ 4.80 case	
3-oz. can 25c—36 to cs. wt. 12 lbs. . . . \$ 6.00 case	
7-oz. can 50c—24 to cs. wt. 14 lbs. . . . \$ 8.00 case	
1-lb. can \$ 1—12 to cs. wt. 16 lbs. . . . \$ 8.00 case	
10-lb. drm. \$ 8—individually packed . . . \$ 5.35 each	
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RIGHT PRICES • PROMPT SHIPMENTS
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woods, were the type the consumer wanted, rather than sugar maples or elms. "That is the trend today and the wholesaler should pay attention to that trend," said Mr. Needham.

Obtaining the Consumer Dollar

The next question posed by the moderator was, "Do you think that the retailer secures a sufficient share of the consumer dollar? Also, what can be done to improve the situation?"

Mr. Kelsey, in answering the question, stated that the nursery business is one of the most important things in our civilization. It is worth a substantial portion of the consumer dollar, he continued, and the nurserymen are not obtaining one tenth of what they should.

"Let's go out and fight for 10 per cent of the consumer dollar that is being spent," he continued. "If we wind up with 5 per cent, we can all retire and be wealthy—we can live in the style to which we would like to become accustomed." Obtaining a greater proportion of the consumer dollar can only be done through better merchandising, Mr. Kelsey concluded.

The moderator urged Mr. Kelsey to continue and he explored further the matter of advertising.

"I think that the biggest thing we can do is to have the retailers group together and do some constructive advertising," he declared. "This has been tried in a small way, but it has not been given an adequate chance. I think that if the retailers in an area stay together and say to the public, 'We are the outstanding nurserymen in the neighborhood, we can give you service and good advice. We are all good people and we want to see you,' group advertising will pay dividends. That means we have to forget our individual prejudices. We have to forget about worrying about the other fellow moving ahead of us."

In reply to another question from the moderator, Mr. Vanderbrook said that the retailer and the wholesaler should exchange information. He expressed the belief that there should be a central clearing house where all the facts might be assembled so that the wholesaler can supply to the central office a listing of the material he has on hand. The retailer can supply the same office with a listing of the supplies that he needs. In this way, the retailer will know what material is available and the wholesaler will know what material is in demand on the part of the public.

At this point, the moderator threw

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Suitable for Potting Roses,
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Per 1000 50.00

Packed
200 per carton

Weight, 25 lbs.
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Per 1000.. 40.00

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Bottom Flaps Folded

JUST POTTED

Will last full season on top
of ground. *Samples on Request.*

"ROOTS-THRU" POT
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← **3 MONTHS**
AFTER planting
in the ground.

When placing pots on top of ground
leave a little air space around each pot.

PLANT POTS IN GROUND
Dept. C, NEWPORT, R. I.

the discussion wide open, and Mr. Bond made the comment that wholesalers in the nursery business are not aiding the retail nurserymen in the same manner as is done by wholesalers in other lines. He mentioned specifically the cooperation that retailers in the food and drug field obtain from their wholesalers and their wholesale salesmen. He expressed the belief that the nursery industry wholesaler can go a long way toward helping the retail nurseryman move his merchandise.

In reply to this, Mr. Vanderbrook said that in his opinion most retailers would not let him, a wholesaler, come into their places of business and tell them how to sell their merchandise.

Mr. Vanderbrook then turned the tables and commented on the problems the wholesalers have with the retailers. He mentioned the retailer who places an order with a wholesaler and tells the latter the approximate date that he wants the material. After the wholesaler prepares the material and lets the retailer know the material is ready, the retailer takes two or three weeks to come and pick it up.

"Not only do we have to put up with that," said Mr. Vanderbrook, "but after the retailer secures the

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3½-in. Tree Labels, copper-wired, painted	\$ 3.70
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4 -in. Pot Labels, painted	2.70
6 -in. Pot Labels, painted	3.30
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Send for Samples and Low Prices

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material he lets it stand in his yard for two or three weeks before he puts it into the ground. You know it is necessary to keep that plant supplied with vitality in order to keep it alive for all that time.

"Now there is another trick that is pulled on us many times. We try to help the retailers as much as we can, but here is something else that we have a good deal of trouble with. A retailer will tell his driver to go to Vanderbrook's and pick up a load. The driver arrives and we load him up. We ask the driver if he has brought a canvas with him and 99 times out of 100 he has no canvas and neither does he have any rope.

"Now I hate to see a load go out of my place without any covering. However, I do not have enough canvas on hand to take care of all the customers who come into my place and load up. Once in a while we will supply the driver with a canvas and a rope and then we will ask the driver to send the canvas and the rope back to us and offer to pay for the express charges. Even then, sometimes, we do not get the canvas back.

"Those are a few of the problems we have with the retailers. We do try to help out as much as we can, but we would like them to remember that we also have some problems that we have to lick."

Dick Van Heiningen made the statement that one of the greatest problems the nursery industry has today is the complete lack of any really good reasons why consumers should buy its products. This observation brought forth a flood of comments from the floor, and the following reasons for planting and landscaping were advanced:

Planting adds beauty; gardening keeps one outdoors and is therefore healthful; planting increases the value of the property; planting aids in climate control and therefore contributes to the comfort of the individual; planting contributes to privacy, cuts down on dust and dirt in the yard and reduces noise coming from the streets; certain plants provide food, etc.

Curtis Porterfield Returns

On Thursday morning, Curtis Porterfield returned to the speakers' rostrum and offered some remarks on the activities on the American Association of Nurserymen, placing particular emphasis on the group insurance plan.

Of particular interest in Mr. Porterfield's talk was his reference to Senate bill 586, introduced by



It does everything! Imagine—it kills the bugs and cures the leaf diseases all at the same time. Aphids, spiders, all kinds of beetles and bugs of every description just disappear as if by magic. Scab, leaf spot, mildews and almost all known leaf diseases quickly vanish.

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BLUE RIDGE FRUIT EXCHANGE, INC.
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Senator Carlson, Republican, of Kansas, and Senator Johnston, Democrat, of South Carolina, which is designed to repeal the authority of the interstate commerce commission with regard to the raising of parcel-post rates.

"If that bill can be passed and become a law before the interstate commerce commission acts on the recently proposed rate increases," explained Mr. Porterfield, "the interstate commerce commission would no longer have the authority to make these increased rates effective, and as a result there would be no increase."

Business Sessions

The business aspects of the New England meeting were spread among several of the sessions. The secretary, Erwin Whitham, reported February 3, and covered the gain in membership, the year's meetings of the executive committee and the summer meeting, which was held mostly for fellowship. He reported on the annual yearbook of the association, which he stated produced \$670 in revenue and cost \$373.23 to print.

Alfred Angel, the treasurer, in his report, showed revenue for the past year of \$4,906.18 and operating ex-

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America's most revolutionary chain saw cuts trees, or any growth up to 6" in diameter, level with terrain while operator is in upright position. Speedy, efficient, rugged, the Sawette is the answer to heavy growth clearing problems.

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Illustrates in full color 235 standard nursery items, brief descriptions. Price, \$1.25 each in small lots.

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Developed for Minnesota-Dakota area, \$1.25 each.

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Nicely illustrated, 48 pages and cover. Price, 30c each in small lots.

Correct Planting Methods

A pocket-size, 48-page booklet. Very complete but concise information, well illustrated. Helpful in preventing claims for dead stock that cost nurserymen money. Sample, 10c. Write for discounts on quantities.

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Popular items in full color. Price, 12c each in small lots.

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Francis A. Robinson, president, is a partner of Robinson & Parnham, member of American Association of Nurserymen in active professional landscape practice for 41 years.

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penses of \$4,533.58, resulting in a net operating surplus of \$372.60. He also reported that the redemption value of six bonds held by the association had increased \$97 during the year to make the net surplus of the association \$469.60. The report was most complete and was accepted unanimously by the membership.

A budget was proposed for the calendar year 1953 which showed an anticipated income of \$2,675 and expenses of \$2,373.13. As set up, the budget would provide for a surplus for the year of \$301.87. The budget was also accepted by unanimous vote.

Resolution Approved

The resolutions committee offered the following, which was approved:

Whereas God, in His infinite wisdom, saw fit to call Luke C. May to his eternal home,

And whereas the members of the New England Nurserymen's Association have for many years known and respected Luke as a fellow member and faithful worker for the association and as president of the association,

And whereas every member has a feeling of personal loss and deep sorrow over Luke's passing on,

Therefore be it resolved, that the members of this association wish to convey to Luke's family their sympathy over their loss and also to make a permanent record of their love and respect for Luke,

And be it further resolved, that this resolution be spread on the records of this association and that a copy be sent to Luke's family.

Charles A. Godin then read the report of the membership committee. The report showed a net gain of nine active members during the past year, bringing the total to 98, and a net gain of seven associate members, bringing the total to 15.

The business session resumed Thursday morning, February 5, following the address of Mr. Porterfield. At this time Mr. Godin was called upon again and was able to report the addition of four more members to the association since the first reading of the membership committee's report at the previous business session.

Set Next Meeting Site

The recommendation of the executive committee that the association accept the invitation of the Adams Nursery, Westfield, Mass., to hold the 1953 summer meeting at that nursery was approved by the membership. The exact date of the summer meeting was not set. The membership also approved a recommendation of the executive committee that the 1954 convention be held February 2 to 4, with the selection of the hotel to be left to the discretion of the executive committee.

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PERMARKER Plant Labels

Permarkers, with thick plastic labels held rigidly on non-rust, sturdy steel supports answer all your customers' plant marking problems.

D. Hill Nursery Co. writes:

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Used for over 20 years to reduce wilting and setback of transplanted broad-leaved and coniferous evergreens, deciduous trees, flowering shrubs, etc. Safe on plant tissue; paint or spray it. Extend transplanting and landscaping through hot weather.

55-gal. drum.....\$63.25 5-gal. drum.....\$7.25

30-gal. drum.....\$37.50

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